

Should the genomic DNA downstream of the promoter contain, in an antisense orientation, at least a portion of an mRNA or a non-translated RNA encoding a gene product involved in proliferation, then induction of transcription from the promoter will result in detectable inhibition of proliferation.

5           In the case of *Staphylococcus aureus*, a shotgun library of *Staphylococcus aureus* genomic fragments was cloned into the vector pXyIT5-P15a, which harbors the XylT5 inducible promoter. The vector was linearized at a unique *Bam*HI site immediately downstream of the XylT5 promoter/operator. The linearized vector was treated with shrimp alkaline phosphatase to prevent reclosure of the linearized ends. Genomic DNA isolated from *Staphylococcus aureus* strain RN450  
10       was fully digested with the restriction enzyme *Sau*3A , or , alternatively, partially digested with DNase I and "blunt-ended" by incubating with T4 DNA polymerase. Random genomic fragments between 200 and 800 base pairs in length were selected by gel purification. The size-selected genomic fragments were added to the linearized and dephosphorylated vector at a molar ratio of 0.1 to 1, and ligated to form a shotgun library.

15           The ligated products were transformed into electrocompetent *E. coli* strain XL1-Blue MRF' (Stratagene) and plated on LB medium with supplemented with carbenicillin at 100 µg/ml. Resulting colonies numbering  $5 \times 10^5$  or greater were scraped and combined, and were then subjected to plasmid purification.

          The purified library was then transformed into electrocompetent *Staphylococcus aureus*  
20       RN4220. Resulting transformants were plated on agar containing LB + 0.2% glucose (LBG medium) + chloramphenicol at 15 µg/ml (LBG+CM15 medium) in order to generate 100 to 150 platings at 500 colonies per plating. The colonies were subjected to robotic picking and arrayed into wells of 384 well culture dishes. Each well contained 100µl of LBG + CM15 liquid medium. Inoculated 384 well dishes were incubated 16 hours at 37°C, and each well was robotically gridded  
25       onto solid LBG + CM15 medium with or without 2% xylose. Gridded plates were incubated 16 hours at 37°C, and then manually scored for arrayed colonies that were growth-compromised in the presence of xylose.

          Arrayed colonies that were growth-sensitive on medium containing 2% xylose, yet were able to grow on similar medium lacking xylose, were subjected to further growth sensitivity  
30       analysis as follows: Colonies from the plate lacking xylose were manually picked and inoculated into individual wells of a 96 well culture dish containing LBG + CM15, and were incubated for 16 hours at 37°C. These cultures were robotically diluted 1/100 into fresh medium and allowed to incubate for 4 hours at 37°C, after which they were subjected to serial dilutions in a 384 well array and then gridded onto media containing 2% xylose or media lacking xylose. After growth for 16  
35       hours at 37°C, the arrays that resulted on the two media were compared to each other. Clones that grew similarly at all dilutions on both media were scored as a negative and were no longer considered. Clones that grew on xylose medium but failed to grow at the same serial dilution on the non-xylose plate were given a score based on the differential, i.e. should the clone grow at a



serial dilution of  $10^4$  or less on the xylose plate and grow at a serial dilution of  $10^8$  or less on the non-xylose plate, then the corresponding clone received a score of "4" representing the log difference in growth observed.

For *Salmonella typhimurium* and *Klebsiella pneumoniae* growth curves were carried out by back diluting cultures 1:200 into fresh media containing 1 mM IPTG or media lacking IPTG and measuring the OD<sub>450</sub> every 30 minutes (min). To study the effects of transcriptional induction on solid medium,  $10^2$ ,  $10^3$ ,  $10^4$ ,  $10^5$ ,  $10^6$ ,  $10^7$  and  $10^8$  fold dilutions of overnight cultures were prepared. Aliquots of from 0.5 to 3  $\mu$ l of these dilutions were spotted on selective agar plates with or without 1 mM IPTG. After overnight incubation, the plates were compared to assess the sensitivity of the clones to IPTG.

Nucleic acids involved in proliferation of *Pseudomonas aeruginosa* were identified as follows. Randomly generated fragments of *Pseudomonas aeruginosa* genomic DNA were transcribed from a two-component inducible promoter system. Integrated on the chromosome was the T7 RNA polymerase gene regulated by *lacUV5/lacO* (Brunschwig, E. and Darzins, A. 1992. Gene 111:35-41). On an expression plasmid there was a T7 gene 10 promoter, which is transcribed by T7 RNA polymerase, fused with a *lacO* operator followed by a multiple cloning site. Transcription from this hybrid promoter is inducible by IPTG. Should the genomic DNA downstream of the promoter contain, in an antisense orientation, at least a portion of an mRNA encoding a gene product involved in proliferation, then induction of expression from the promoter will result in detectable inhibition of proliferation.

A shotgun library of *Pseudomonas aeruginosa* genomic fragments was cloned into the vectors pEP5, pEP5S, or other similarly constructed vectors which harbor the T7*lacO* inducible promoter. The vector was linearized at a unique *SmaI* site immediately downstream of the T7*lacO* promoter/operator. The linearized vector was treated with shrimp alkaline phosphatase to prevent reclosure of the linearized ends. Genomic DNA isolated from *Pseudomonas aeruginosa* strain PAO1 was partially digested with DNase I and "blunt-ended" by incubating with T4 DNA polymerase. Random genomic fragments between 200 and 800 base pairs in length were selected by gel purification. The size-selected genomic fragments were added to the linearized and dephosphorylated vector at a molar ratio of 2 to 1, and ligated to form a shotgun library.

The ligated products were transformed into electrocompetent *E. coli* strain XL1-Blue MRF' (Stratagene) and plated on LB medium with carbenicillin at 100  $\mu$ g/ml or Streptomycin 100  $\mu$ g/ml. Resulting colonies numbering  $5 \times 10^5$  or greater were scraped and combined, and were then subjected to plasmid purification.

The purified library was then transformed into electrocompetent *Pseudomonas aeruginosa* strain PAO1. Resulting transformants were plated on LB agar with carbenicillin at 100  $\mu$ g/ml or Streptomycin 40  $\mu$ g/ml in order to generate 100 to 150 platings at 500 colonies per plating. The colonies were subjected to robotic picking and arrayed into wells of 384 well culture dishes. Each well contained 100  $\mu$ l of LB + CB 100 or Streptomycin 40 liquid medium. Inoculated 384 well



dishes were incubated 16 hours at room temperature, and each well was robotically gridded onto solid LB + CB100 or Streptomycin 40 medium with or without 1 mM IPTG. Gridded plates were incubated 16 hours at 37°C, and then manually scored for arrayed colonies that were growth-compromised in the presence of IPTG.

5           Arrayed colonies that were growth-sensitive on medium containing 1 mM IPTG, yet were able to grow on similar medium lacking IPTG, were subjected to further growth sensitivity analysis as follows: Colonies from the plate lacking IPTG were manually picked and inoculated into individual wells of a 96 well culture dish containing LB + CB100 or Streptomycin 40, and were incubated for 16 hours at 30°C. These cultures were robotically diluted 1/100 into fresh medium  
10   and allowed to incubate for 4 hours at 37°C, after which they were subjected to serial dilutions in a 384 well array and then gridded onto media with and without 1 mM IPTG. After growth for 16 hours at 37°C, the arrays of serially diluted spots that resulted were compared between the two media. Clones that grew similarly at all dilutions on both media were scored as a negative and were no longer considered. Clones that grew on IPTG medium but failed to grow at the same serial  
15   dilution on the non-IPTG plate were given a score based on the differential, i.e. should the clone grow at a serial dilution of  $10^4$  or less on the IPTG plate and grow at a serial dilution of  $10^8$  or less on the IPTG plate, then the corresponding clone received a score of "4" representing the log difference in growth observed.

Following the identification of those vectors that, upon induction, negatively impacted  
20   *Pseudomonas aeruginosa* growth or proliferation, the inserts or nucleic acid fragments contained in those vectors were isolated for subsequent characterization. Vectors of interest were subjected to nucleic acid sequence determination.

Nucleic acids involved in proliferation of *E. faecalis* were identified as follows. Randomly generated fragments of genomic DNA were expressed from the vectors pEPEF3 or pEPEF14,  
25   which contain the CP25 or P59 promoter, respectively, regulated by the xyl operator/repressor. These plasmids as well as other vectors useful for the expression of nucleic acids in *Enterococcus faecalis* and other Gram positive organisms are described in U.S. Patent Application Serial Number 10/032,393, filed December 21, 2001, the disclosure of which is incorporated herein by reference in its entirety. Should the genomic DNA downstream of the promoter contain, in an antisense  
30   orientation, at least a portion of a mRNA encoding a gene product involved in proliferation, then induction of expression from the promoter will result in detectable inhibition of proliferation.

A shotgun library of *E. faecalis* genomic fragments was cloned into the vector pEPEF3 or pEPEF14, which harbor xylose inducible promoters. The vector was linearized at a unique *Sma*I site immediately downstream of the promoter/operator. The linearized vector was treated with  
35   alkaline phosphatase to prevent reclosure of the linearized ends. Genomic DNA isolated from *E. faecalis* strain OG1RF was partially digested with DNase I and "blunt-ended" by incubating with T4 DNA polymerase. Random genomic fragments between 200 and 800 base pairs in length were



selected by gel purification. The size-selected genomic fragments were added to the linearized and dephosphorylated vector at a molar ratio of 2 to 1, and ligated to form a shotgun library.

The ligated products were transformed into electrocompetent *E. coli* strain TOP10 cells (Invitrogen) and plated on LB medium with erythromycin (Erm) at 150 µg/ml. Resulting colonies  
5 numbering  $5 \times 10^5$  or greater were scraped and combined, and were then subjected to plasmid purification.

The purified library was then transformed into electrocompetent *E. faecalis* strain OG1RF. Resulting transformants were plated on Todd-Hewitt (TH) agar with erythromycin at 10 µg/ml in order to generate 100 to 150 platings at 500 colonies per plating. The colonies were subjected to  
10 robotic picking and arrayed into wells of 384 well culture dishes. Each well contained 100 µl of THB + Erm 10 µg/ml. Inoculated 384 well dishes were incubated 16 hours at room temperature, and each well was robotically gridded onto solid TH agar + Erm with or without 5% xylose. Gridded plates were incubated 16 hours at 37°C, and then manually scored for arrayed colonies that were growth-compromised in the presence of xylose.

15 Arrayed colonies that were growth-sensitive on medium containing 5% xylose, yet were able to grow on similar medium lacking xylose, were subjected to further growth sensitivity analysis. Colonies from the plate lacking xylose were manually picked and inoculated into individual wells of a 96 well culture dish containing THB + Erm 10, and were incubated for 16 hours at 30°C. These cultures were robotically diluted 1/100 into fresh medium and allowed to  
20 incubate for 4 hours at 37°C, after which they were subjected to serial dilution on plates containing 5% xylose or plates lacking xylose. After growth for 16 hours at 37°C, the arrays of serially diluted spots that resulted were compared between the two media. Colonies that grew similarly on both media were scored as a negative and corresponding colonies were no longer considered. Colonies on xylose medium that failed to grow to the same serial dilution compared to those on the non-  
25 xylose plate were given a score based on the differential. For example, colonies on xylose medium that only grow to a serial dilution of  $10^{-4}$  while they were able to grow to  $10^{-8}$  on the non-xylose plate, then the corresponding transformant colony received a score of "4" representing the log difference in growth observed.

Following the identification of those vectors that, upon induction, negatively impacted *E.*  
30 *faecalis* growth or proliferation, the inserts or nucleic acid fragments contained in those expression vectors were isolated for subsequent characterization. The inserts in the vectors of interest were subjected to nucleotide sequence determination.

It will be appreciated that other restriction enzymes and other endonucleases or methodologies may be used to generate random genomic fragments. In addition, random genomic  
35 fragments may be generated by mechanical shearing. Sonication and nebulization are two such techniques commonly used for mechanical shearing of DNA.



## EXAMPLE 2

Nucleotide Sequence Determination of Identified Clones Transcribing Nucleic Acid Fragments with Detrimental Effects on *Escherichia coli*, *Staphylococcus aureus*, *Enterococcus faecalis*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa* or *Salmonella typhimurium* Proliferation

5 Plasmids from clones that received a dilution plating score of "2" or greater were isolated to obtain the genomic DNA insert responsible for growth inhibition as follows.

The nucleotide sequences of the nucleic acid sequences which inhibited the growth of *Escherichia coli* were determined using plasmid DNA isolated using QIAPREP (Qiagen, Valencia, CA) and methods supplied by the manufacturer. The primers used for sequencing the inserts were 5' -  
 10 TGTTCATCAGACCGCTT - 3' (SEQ ID NO: 78586) and 5' - ACAATTTTCACACAGCCTC - 3' (SEQ ID NO: 78587). These sequences flank the polylinker in pLEX5BA.

The nucleotide sequences of the nucleic acid sequences which inhibited the growth of *Staphylococcus aureus* were determined as follows. *Staphylococcus aureus* were grown in standard laboratory media (LB or TB with 15 ug/ml Chloramphenicol to select for the plasmid). Growth  
 15 was carried out at 37°C overnight in culture tubes or 2 ml deep well microtiter plates.

Lysis of *Staphylococcus aureus* was performed as follows. Cultures (2-5 ml) were centrifuged and the cell pellets resuspended in 1.5 mg/ml solution of lysostaphin (20 µl/ml of original culture) followed by addition of 250 µl of resuspension buffer (Qiagen). Alternatively, cell pellets were resuspended directly in 250 µl of resuspension buffer (Qiagen) to which 5-20 µl of a 1  
 20 mg/ml lysostaphin solution were added.

DNA was isolated using Qiagen miniprep kits or Wizard (Qiagen) miniprep kits according to the instructions provided by the manufacturer.

The genomic DNA inserts were amplified from the purified plasmids by PCR as follows.

1 µl of Qiagen purified plasmid was put into a total reaction volume of 25 µl Qiagen Hot  
 25 Start PCR mix. For *Staphylococcus aureus*, the following primers were used in the PCR reaction:  
 pXylT5F: CAGCAGTCTGAGTTATAAAATAG (SEQ ID NO: 78588)  
 LexL TGTTCATCAGACCGCTT (SEQ ID NO: 78589)

Similar methods were conducted for *Salmonella typhimurium* and *Klebsiella pneumoniae*. For *Salmonella typhimurium* and *Klebsiella pneumoniae* the following primers were used:

30 5' - TGTTCATCAGACCGCTT - 3' (SEQ ID NO: 78589) and  
 5'-ACAATTTTCACACAGCCTC-3' (SEQ ID NO: 78587)

PCR was carried out in a PE GenAmp with the following cycle times:

Step 1. 95° C 15 min

Step 2. 94° C 45 sec

35 Step 3. 54° C 45 sec

Step 4. 72° C 1 minute

Step 5. Return to step 2, 29 times

Step 6. 72° C 10 minutes



Step 7. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's instructions.

For *Pseudomonas aeruginosa*, plasmids from transformant colonies that received a dilution plating score of "2" or greater were isolated to obtain the genomic DNA insert responsible for growth inhibition as follows. *Pseudomonas aeruginosa* were grown in standard laboratory media (LB with carbenicillin at 100 µg/ml or Streptomycin 40 µg/ml to select for the plasmid). Growth was carried out at 30°C overnight in 100 ul culture wells in microtiter plates. To amplify insert DNA 2 ul of culture were placed into 25 ul Qiagen Hot Start PCR mix. PCR reactions were in 96 well microtiter plates. For plasmid pEP5S the following primers were used in the PCR reaction:

T7L1+: GTCGGCGATATAGGCGCCAGCAACCG (SEQ ID NO: 78590)

pStrA3: ATAATCGAGCATGAGTATCATACG (SEQ ID NO: 78591)

PCR was carried out in a PE GenAmp with the following cycle times:

Step 1. 95° C 15 min

Step 2. 94° C 45 sec

Step 3. 54° C 45 sec

Step 4. 72° C 1 minute

Step 5. Return to step 2, 29 times

Step 6. 72° C 10 minutes

Step 7. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's instructions.

The purified PCR products were then directly cycle sequenced with Qiagen Hot Start PCR mix. The following primers were used in the sequencing reaction:

T7/L2: ATGCGTCCGGCGTAGAGGAT (SEQ ID NO: 78592)

PCR was carried out in a PE GenAmp with the following cycle times:

Step 1. 94° C 15 min

Step 2. 96° C 10 sec

Step 3. 50° C 5 sec

Step 4. 60 C 4 min

Step 5. Return to step 2, 24 times

Step 6. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's instructions.

For *E. faecalis*, plasmids from transformant colonies that received a dilution plating score of "2" or greater were isolated to obtain the genomic DNA insert responsible for growth inhibition as follows. *E. faecalis* were grown in THB 10 µg/ml Erm at 30°C overnight in 100 ul culture wells



in microtiter plates. To amplify insert DNA 2 ul of culture were placed into 25 µl Qiagen Hot Start PCR mix. PCR reactions were in 96 well microtiter plates. The following primers were used in the PCR reaction:

pXylT5: CAGCAGTCTGAGTTATAAAATAG (SEQ ID NO: 78588) and the

5 pEP/pAK1 primer.

PCR was carried out in a PE GenAmp with the following cycle times:

Step 1. 95° C 15 min

Step 2. 94° C 45 sec

Step 3. 54° C 45 sec

10 Step 4. 72° C 1 minute

Step 5. Return to step 2, 29 times

Step 6. 72° C 10 minutes

Step 7. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's

15 instructions.

The purified PCR products were then directly cycle sequenced with Qiagen Hot Start PCR mix. The following primers were used in the PCR reaction:

pXylT5: CAGCAGTCTGAGTTATAAAATAG (SEQ ID NO: 78588)

PCR was carried out in a PE GenAmp with the following cycle times:

20 Step 1. 94° C 15 min

Step 2. 96° C 10 sec

Step 3. 50° C 5 sec

Step 4. 60° C 4 min

Step 5. Return to step 2, 24 times

25 Step 6. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's instructions.

The amplified genomic DNA inserts from each of the above procedures were subjected to automated sequencing. Sequence identification numbers (SEQ ID NOs) and clone names for the  
30 identified inserts are listed in Table IA and discussed below.

TABLE IA

SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name
1	E3M10000001B01	1243	P33-1.C22	2485	E1M10000260G02	3727	P1M10000105C04	4969	S1M10000025G06
2	E3M10000001A02	1244	X3S107-17	2486	E1M10000260F04	3728	P1M10000105D04	4970	S1M10000025H06
3	E3M10000001B02	1245	P35-7	2487	E1M10000260A05	3729	P1M10000105C05	4971	S1M10000025H07
4	E3M10000001C02	1246	X3S118-9	2488	E1M10000260C05	3730	P1M10000105B06	4972	S1M10000025A08
5	E3M10000001D02	1247	X3S163-1	2489	E1M10000260E05	3731	P1M10000105C08	4973	S1M10000025D08
6	E3M10000001E02	1248	X3S204-7	2490	E1M10000260C07	3732	P1M10000105H08	4974	S1M10000025F08
7	E3M10000001F02	1249	X3S177-4	2491	E1M10000260G07	3733	P1M10000105D09	4975	S1M10000025H08
8	E3M10000001G02	1250	P342-3	2492	E1M10000260B08	3734	P1M10000110E01	4976	S1M10000025A09
9	E3M10000001H02	1251	SC21.1	2493	E1M10000260D08	3735	P1M10000110F01	4977	S1M10000025B09
10	E3M10000001E03	1252	SC17.1	2494	E1M10000260E08	3736	P1M10000110G01	4978	S1M10000025C09
11	E3M10000001G03	1253	SC13.1	2495	E1M10000260E09	3737	P1M10000110B02	4979	S1M10000025D09
12	E3M10000001H03	1254	MC9.6	2496	E1M10000260C10	3738	P1M10000110B03	4980	S1M10000025E09
13	E3M10000001D04	1255	Z60-P16	2497	E1M10000260D10	3739	P1M10000110F03	4981	S1M10000025F09
14	E3M10000001E04	1256	Z86-I21	2498	E1M10000260E10	3740	P1M10000110G03	4982	S1M10000025A10
15	E3M10000001F04	1257	E1M10000109A02	2499	E1M10000260G10	3741	P1M10000110D04	4983	S1M10000025C10
16	E3M10000001G04	1258	E1M10000109A11	2500	E1M10000260H10	3742	P1M10000110F04	4984	S1M10000025D10
17	E3M10000001H04	1259	E1M10000101F05	2501	E1M10000260H11	3743	P1M10000110B05	4985	S1M10000025F10
18	E3M10000001B05	1260	E1M10000101D06	2502	E1M10000260B12	3744	P1M10000110E05	4986	S1M10000025G10
19	E3M10000001D05	1261	E1M10000101A07	2503	E1M10000260D12	3745	P1M10000110B07	4987	S1M10000025H10
20	E3M10000001G05	1262	E1M10000101H07	2504	E1M10000260G12	3746	P1M10000110B08	4988	S1M10000025C11
21	E3M10000001A06	1263	E1M10000101H09	2505	E1M10000261F01	3747	P1M10000110F08	4989	S1M10000025E11
22	E3M10000001F06	1264	E1M10000101C12	2506	E1M10000261B02	3748	P1M10000110A09	4990	S1M10000025B12
23	E3M10000001B08	1265	E1M10000103B04	2507	E1M10000261H02	3749	P1M10000110E09	4991	S1M10000025F12
24	E3M10000001E08	1266	E1M10000103D11	2508	E1M10000261G04	3750	P1M10000110F09	4992	S1M10000026C01
25	E3M10000001C09	1267	E1M10000110G01	2509	E1M10000261H05	3751	P1M10000100F01	4993	S1M10000026E01
26	E3M10000001D09	1268	E1M10000110H01	2510	E1M10000261G06	3752	P1M10000098A02	4994	S1M10000026F01
27	E3M10000001E09	1269	E1M10000110E09	2511	E1M10000261H06	3753	P1M10000098B02	4995	S1M10000026G01
28	E3M10000001B10	1270	E1M10000110A12	2512	E1M10000261D08	3754	P1M10000098A03	4996	S1M10000026H01
29	E3M10000004D01	1271	E1M10000112F05	2513	E1M10000261F08	3755	P1M10000098D03	4997	S1M10000026A02
30	E3M10000004G01	1272	E1M10000113F02	2514	E1M10000261C09	3756	P1M10000098E04	4998	S1M10000026B02
31	E3M10000004D02	1273	E1M10000113A11	2515	E1M10000261H09	3757	P1M10000098G04	4999	S1M10000026H02
32	E3M10000004C03	1274	E1M10000111C03	2516	E1M10000261E10	3758	P1M10000098A05	5000	S1M10000026B03
33	E3M10000004A04	1275	E1M10000111E04	2517	E1M10000262E01	3759	P1M10000098C05	5001	S1M10000026F03



SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name
34	E3M10000004F08	1276	E1M10000111F09	2518	E1M10000262C02	3760	P1M10000098G06	5002	S1M10000026G03
35	E3M10000004D10	1277	E1M10000115H01	2519	E1M10000262E02	3761	P1M10000098H06	5003	S1M10000026H03
36	E3M10000004F10	1278	E1M10000115G02	2520	E1M10000262F02	3762	P1M10000098C07	5004	S1M10000026A04
37	E3M10000004E11	1279	E1M10000115E03	2521	E1M10000262D03	3763	P1M10000098F07	5005	S1M10000026D04
38	E3M10000004H11	1280	E1M10000115G04	2522	E1M10000262G04	3764	P1M10000098A08	5006	S1M10000026F04
39	E3M10000005B01	1281	E1M10000115C06	2523	E1M10000262C05	3765	P1M10000098G08	5007	S1M10000026G04
40	E3M10000005C01	1282	E1M10000116B01	2524	E1M10000262A06	3766	P1M10000098H09	5008	S1M10000026H04
41	E3M10000005E01	1283	E1M10000106D02	2525	E1M10000262A07	3767	P1M10000098B11	5009	S1M10000026A05
42	E3M10000005E02	1284	E1M10000106G02	2526	E1M10000262E07	3768	P1M10000098C12	5010	S1M10000026B05
43	E3M10000005C03	1285	E1M10000106E04	2527	E1M10000262E08	3769	P1M10000099D01	5011	S1M10000026D05
44	E3M10000005D03	1286	E1M10000106F05	2528	E1M10000262B10	3770	P1M10000099G03	5012	S1M10000026F05
45	E3M10000005E03	1287	E1M10000106H05	2529	E1M10000262H10	3771	P1M10000099A09	5013	S1M10000026G05
46	E3M10000005C04	1288	E1M10000106H06	2530	E1M10000262G11	3772	P1M10000099A10	5014	S1M10000026H05
47	E3M10000005D04	1289	E1M10000106A08	2531	E1M10000262D12	3773	P1M10000099E10	5015	S1M10000026A06
48	E3M10000005H04	1290	E1M10000106E09	2532	E1M10000262G12	3774	P1M10000099F10	5016	S1M10000026B06
49	E3M10000005G05	1291	E1M10000106G10	2533	E1M10000263F01	3775	P1M10000099D11	5017	S1M10000026C06
50	E3M10000005A07	1292	E1M10000106D11	2534	E1M10000263H05	3776	P1M10000106D02	5018	S1M10000026D06
51	E3M10000005F07	1293	E1M10000122B03	2535	E1M10000263C06	3777	P1M10000106F03	5019	S1M10000026F06
52	E3M10000005B08	1294	E1M10000123D05	2536	E1M10000263G06	3778	P1M10000106H03	5020	S1M10000026G06
53	E3M10000005E08	1295	E1M10000123C09	2537	E1M10000263B07	3779	P1M10000106F04	5021	S1M10000026A07
54	E3M10000005D10	1296	E1M10000123E09	2538	E1M10000263F08	3780	P1M10000106D05	5022	S1M10000026B07
55	E3M10000005F10	1297	E1M10000123H10	2539	E1M10000263A10	3781	P1M10000106E07	5023	S1M10000026C07
56	E3M10000006C01	1298	E1M10000123F11	2540	E1M10000263A11	3782	P1M10000107E02	5024	S1M10000026D07
57	E3M10000006G02	1299	E1M10000107B02	2541	E1M10000263H11	3783	P1M10000107H02	5025	S1M10000026F07
58	E3M10000006B03	1300	E1M10000107E02	2542	E1M10000263C12	3784	P1M10000107C03	5026	S1M10000026G07
59	E3M10000006D03	1301	E1M10000107G02	2543	E1M10000263D12	3785	P1M10000107A04	5027	S1M10000026H07
60	E3M10000006F04	1302	E1M10000107B03	2544	E1M10000264B02	3786	P1M10000107C04	5028	S1M10000026A08
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63	E3M10000006E11	1305	E1M10000107G08	2547	E1M10000264D03	3789	P1M10000107D10	5031	S1M10000026F08
64	E3M10000006C12	1306	E1M10000107F09	2548	E1M10000264F03	3790	P1M10000107H10	5032	S1M10000026G08
65	E3M10000006G12	1307	E1M10000107H09	2549	E1M10000264A04	3791	P1M10000108C01	5033	S1M10000026A09
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67	E3M10000007G01	1309	E1M10000118C04	2551	E1M10000264C04	3793	P1M10000108B02	5035	S1M10000026G09
68	E3M10000007A02	1310	E1M10000118B05	2552	E1M10000264E04	3794	P1M10000108A03	5036	S1M10000026H09
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72	E3M10000007D03	1314	E1M10000119D03	2556	E1M10000264G09	3798	P1M10000108F05	5040	S1M10000026E10
73	E3M10000007H03	1315	E1M10000119A04	2557	E1M10000264D11	3799	P1M10000108F06	5041	S1M10000026F10
74	E3M10000007C04	1316	E1M10000131H01	2558	E1M10000264F11	3800	P1M10000108G06	5042	S1M10000026G10
75	E3M10000007E05	1317	E1M10000131F04	2559	E1M10000264H11	3801	P1M10000109A02	5043	S1M10000026H10
76	E3M10000007F06	1318	E1M10000131C06	2560	E1M10000264B12	3802	P1M10000109C03	5044	S1M10000026A11
77	E3M10000008E02	1319	E1M10000131B07	2561	E1M10000264C12	3803	P1M10000109E03	5045	S1M10000026B11
78	E3M10000008H02	1320	E1M10000131C07	2562	E1M10000265A02	3804	P1M10000109D04	5046	S1M10000026C11
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80	E3M10000008G05	1322	E1M10000131G10	2564	E1M10000265G02	3806	P1M10000109B08	5048	S1M10000026B12
81	E3M10000008C08	1323	E1M10000135B02	2565	E1M10000265D04	3807	P1M10000109H09	5049	S1M10000026C12
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83	E3M10000008C09	1325	E1M10000132F02	2567	E1M10000265E05	3809	P1M10000109F10	5051	S1M10000026E12
84	E3M10000008G09	1326	E1M10000132H04	2568	E1M10000265H05	3810	P1M10000109E11	5052	S1M10000026F12
85	E3M10000009D01	1327	E1M10000132G08	2569	E1M10000265C09	3811	P1M10000109B12	5053	S1M10000026G12
86	E3M10000009E02	1328	E1M10000133A06	2570	E1M10000265E09	3812	S4M10000001C01	5054	S1M10000027G01
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93	E3M100000010F01	1335	E1M10000144B06	2577	E1M10000266H02	3819	S4M10000009E03	5061	S1M10000027E03
94	E3M100000010H02	1336	E1M10000144G06	2578	E1M10000266F04	3820	S4M10000009C06	5062	S1M10000027G03
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98	E3M100000010G09	1340	E1M10000145E01	2582	E1M10000266F11	3824	S4M10000009F11	5066	S1M10000027H04
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100	E3M100000011H02	1342	E1M10000146D02	2584	E1M10000267E04	3826	S4M10000010F04	5068	S1M10000027C05
101	E3M100000011B03	1343	E1M10000146E05	2585	E1M10000267A05	3827	S4M10000010H04	5069	S1M10000027D05
102	E3M100000011D03	1344	E1M10000124E02	2586	E1M10000267B05	3828	S4M10000010B05	5070	S1M10000027E05
103	E3M100000011C07	1345	E1M10000124G03	2587	E1M10000267A07	3829	S4M10000010D07	5071	S1M10000027F05
104	E3M100000011A09	1346	E1M10000124G04	2588	E1M10000267H07	3830	S4M10000010D08	5072	S1M10000027G05
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108	E3M10000012B02	1350	E1M10000125A02	2592	E1M10000267A10	3834	S4M10000010D10	5076	S1M10000027D06
109	E3M10000012G02	1351	E1M10000125F07	2593	E1M10000267E10	3835	S4M10000011F05	5077	S1M10000027E06
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111	E3M10000012F06	1353	E1M10000120F01	2595	E1M10000267E11	3837	S4M10000011A09	5079	S1M10000027G06
112	E3M10000012B07	1354	E1M10000120E04	2596	E1M10000267B12	3838	S4M10000011F09	5080	S1M10000027H06
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114	E3M10000012G07	1356	E1M10000120A06	2598	E1M10000268F03	3840	S4M10000011F10	5082	S1M10000027D07
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117	E3M10000012F10	1359	E1M10000120G10	2601	E1M10000268F06	3843	S4M10000012B06	5085	S1M10000027H07
118	E3M10000013D02	1360	E1M10000136C01	2602	E1M10000268E07	3844	S4M10000012B12	5086	S1M10000027A08
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120	E3M10000013H03	1362	E1M10000136E02	2604	E1M10000268B08	3846	S4M10000013H02	5088	S1M10000027C08
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124	E3M10000013A06	1366	E1M10000121G05	2608	E1M10000268E09	3850	S4M10000015E09	5092	S1M10000027G08
125	E3M10000013A07	1367	E1M10000121F06	2609	E1M10000268F09	3851	S4M10000015B11	5093	S1M10000027H08
126	E3M10000013D08	1368	E1M10000121E07	2610	E1M10000268G09	3852	S4M10000016A02	5094	S1M10000027B09
127	E3M10000013E08	1369	E1M10000121D08	2611	E1M10000268E10	3853	S4M10000020F08	5095	S1M10000027C09
128	E3M10000013D10	1370	E1M10000129G04	2612	E1M10000268A11	3854	S4M10000021E07	5096	S1M10000027D09
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131	E3M10000014B12	1373	E1M10000126E08	2615	E1M10000269D01	3857	S4M10000022B05	5099	S1M10000027G09
132	E3M10000014E12	1374	E1M10000126F12	2616	E1M10000269B02	3858	S4M10000022G07	5100	S1M10000027H09
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135	E3M10000015E12	1377	E1M10000127D09	2619	E1M10000269H04	3861	S4M10000024G01	5103	S1M10000027A11
136	E3M10000016A03	1378	E1M10000137C03	2620	E1M10000269B05	3862	S4M10000024G04	5104	S1M10000027B11
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138	E3M10000016A04	1380	E1M10000137E07	2622	E1M10000269H05	3864	S4M10000024F08	5106	S1M10000027E11
139	E3M10000016G05	1381	E1M10000137B08	2623	E1M10000269A06	3865	S4M10000024G09	5107	S1M10000027G11
140	E3M10000016H05	1382	E1M10000137G09	2624	E1M10000269E07	3866	S4M10000024C11	5108	S1M10000027H11
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144	E3M10000017A09	1386	E1M10000139B11	2628	E1M10000269C12	3870	S4M10000025A11	5112	S1M10000028G01
145	E3M10000017D09	1387	E1M10000140B05	2629	E1M10000269G12	3871	S4M10000025F12	5113	S1M10000028A02
146	E3M10000018E01	1388	E1M10000142H03	2630	E1M10000271F02	3872	S4M10000026C01	5114	S1M10000028B02
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167	E3M10000021G11	1409	E1M10000152G01	2651	E1M10000272B08	3893	S4M10000035D01	5135	S1M10000028H05
168	E3M10000021H11	1410	E1M10000152G03	2652	E1M10000272C08	3894	S4M10000035F02	5136	S1M10000028A06
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174	E3M10000022C05	1416	E1M10000152H08	2658	E1M10000272G09	3900	S4M10000036H11	5142	S1M10000028D07
175	E3M10000022F05	1417	E1M10000152E09	2659	E1M10000272H09	3901	S4M10000037A03	5143	S1M10000028F07
176	E3M10000022C06	1418	E1M10000153H03	2660	E1M10000273E01	3902	S4M10000037A08	5144	S1M10000028H07
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180	E3M10000022F08	1422	E1M10000153A09	2664	E1M10000273E05	3906	S4M10000033G05	5148	S1M10000028D08
181	E3M10000022C09	1423	E1M10000156D07	2665	E1M10000273G05	3907	S4M10000033F08	5149	S1M10000028E08
182	E3M10000022A11	1424	E1M10000156B08	2666	E1M10000273C07	3908	S4M10000033G09	5150	S1M10000028G08
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184	E3M10000022G12	1426	E1M10000156G12	2668	E1M10000273G11	3910	S1M10000001D01	5152	S1M10000028B09
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198	E3M10000023A07	1440	E1M10000160B09	2682	E1M10000274F09	3924	S1M100000001E09	5166	S1M10000029C03
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200	E3M10000023C08	1442	E1M10000160E09	2684	E1M10000274D11	3926	S1M100000001A10	5168	S1M10000029A04
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212	E3M10000025B01	1454	E1M10000163H01	2696	E1M10000275E05	3938	S1M100000002F02	5180	S1M10000029C07
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216	E3M10000025C04	1458	E1M10000163B12	2700	E1M10000275A08	3942	S1M10000002B04	5184	S1M10000029H08
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218	E3M10000025B05	1460	E1M10000164F04	2702	E1M10000275F09	3944	S1M10000002D05	5186	S1M10000029C09
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220	E3M10000025A06	1462	E1M10000154F03	2704	E1M10000275G11	3946	S1M10000002B06	5188	S1M10000029F09
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248	E3M10000027B07	1490	E1M10000168B02	2732	E1M10000312F09	3974	S1M10000003F02	5216	S1M10000030C03
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276	E3M10000028B05	1518	E1M10000187D01	2760	E1M10000314H04	4002	S1M10000003B12	5244	S1M100000030C10		
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279	E3M10000028F05	1521	E1M10000187G06	2763	E1M10000314G05	4005	S1M10000004C01	5247	S1M100000030G10		
280	E3M10000028G05	1522	E1M10000187G09	2764	E1M10000314D06	4006	S1M10000004D01	5248	S1M100000030H10		
281	E3M10000028A06	1523	E1M10000187A10	2765	E1M10000314F06	4007	S1M10000004F01	5249	S1M100000030A11		
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284	E3M10000028D06	1526	E1M10000187F11	2768	E1M10000314G10	4010	S1M10000004F02	5252	S1M100000030G11		
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325	E3M10000029F06	1567	E1M10000193F01	2809	E1M10000277G01	4051	S1M10000005E01	5293	S1M10000031A11		
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343	E3M10000029F10	1585	E1M10000194B03	2827	E1M10000278C07	4069	S1M10000005D07	5311	S1M10000032D03		
344	E3M10000029G10	1586	E1M10000194F03	2828	E1M10000278C08	4070	S1M10000005A08	5312	S1M10000032E03		
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347	E3M10000029H11	1589	E1M10000194D05	2831	E1M10000278H11	4073	S1M10000005E08	5315	S1M10000032E04		
348	E3M10000029B12	1590	E1M10000194F06	2832	E1M10000279G03	4074	S1M10000005B09	5316	S1M10000032F04		
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350	E3M10000029D12	1592	E1M10000194H06	2834	E1M10000279G05	4076	S1M10000005D09	5318	S1M10000032H04		
351	E3M10000029E12	1593	E1M10000194B07	2835	E1M10000279E07	4077	S1M10000005A10	5319	S1M10000032A05		
352	E3M10000029F12	1594	E1M10000194H07	2836	E1M10000279H07	4078	S1M10000005A11	5320	S1M10000032B05		
353	E3M10000029G12	1595	E1M10000194B08	2837	E1M10000279F08	4079	S1M10000005C11	5321	S1M10000032C05		
354	E3M10000030E01	1596	E1M10000194G08	2838	E1M10000279A09	4080	S1M10000005D11	5322	S1M10000032F05		
355	E3M10000030F01	1597	E1M10000194F09	2839	E1M10000279B09	4081	S1M10000005E11	5323	S1M10000032H05		
356	E3M10000030G01	1598	E1M10000194B10	2840	E1M10000279C10	4082	S1M10000005B12	5324	S1M10000032A06		
357	E3M10000030D02	1599	E1M10000194A11	2841	E1M10000279D10	4083	S1M10000005D12	5325	S1M10000032D06		



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360	E3M10000030C03	1602	E1M10000194G12	2844	E1M10000280G01	4086	S1M10000006E02	5328	S1M10000032A07		
361	E3M10000030G03	1603	E1M10000195G02	2845	E1M10000280B02	4087	S1M10000006F02	5329	S1M10000032B07		
362	E3M10000030H03	1604	E1M10000195B03	2846	E1M10000280C03	4088	S1M10000006G02	5330	S1M10000032C07		
363	E3M10000030B04	1605	E1M10000195G03	2847	E1M10000280C05	4089	S1M10000006A03	5331	S1M10000032D07		
364	E3M10000030C04	1606	E1M10000195A04	2848	E1M10000280E05	4090	S1M10000006B03	5332	S1M10000032F07		
365	E3M10000030E04	1607	E1M10000195G05	2849	E1M10000280A06	4091	S1M10000006D03	5333	S1M10000032H07		
366	E3M10000030F04	1608	E1M10000195D06	2850	E1M10000280B06	4092	S1M10000006E03	5334	S1M10000032A08		
367	E3M10000030H04	1609	E1M10000195E07	2851	E1M10000280H06	4093	S1M10000006F03	5335	S1M10000032B08		
368	E3M10000030A05	1610	E1M10000195A08	2852	E1M10000280A07	4094	S1M10000006G03	5336	S1M10000032D08		
369	E3M10000030B05	1611	E1M10000195E09	2853	E1M10000280C07	4095	S1M10000006A04	5337	S1M10000032E08		
370	E3M10000030D05	1612	E1M10000195D10	2854	E1M10000280G07	4096	S1M10000006B04	5338	S1M10000032G08		
371	E3M10000030E05	1613	E1M10000195E10	2855	E1M10000280E08	4097	S1M10000006C04	5339	S1M10000032B09		
372	E3M10000030B06	1614	E1M10000195D11	2856	E1M10000280F08	4098	S1M10000006E04	5340	S1M10000032C09		
373	E3M10000030D06	1615	E1M10000195F11	2857	E1M10000280C09	4099	S1M10000006F04	5341	S1M10000032D09		
374	E3M10000030F06	1616	E1M10000196B02	2858	E1M10000280H09	4100	S1M10000006G04	5342	S1M10000032E09		
375	E3M10000030G06	1617	E1M10000196C02	2859	E1M10000280C10	4101	S1M10000006A05	5343	S1M10000032H09		
376	E3M10000030H06	1618	E1M10000196E02	2860	E1M10000280C11	4102	S1M10000006D05	5344	S1M10000032A10		
377	E3M10000030B07	1619	E1M10000196G02	2861	E1M10000280D11	4103	S1M10000006G05	5345	S1M10000032B10		
378	E3M10000030F07	1620	E1M10000196A03	2862	E1M10000280H11	4104	S1M10000006C06	5346	S1M10000032C10		
379	E3M10000030H07	1621	E1M10000196D03	2863	E1M10000280F12	4105	S1M10000006D06	5347	S1M10000032E10		
380	E3M10000030A08	1622	E1M10000196A04	2864	E1M10000281B01	4106	S1M10000006F06	5348	S1M10000032F10		
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384	E3M10000030G08	1626	E1M10000196D06	2868	E1M10000281E07	4110	S1M10000006C07	5352	S1M10000032D11		
385	E3M10000030H08	1627	E1M10000196F06	2869	E1M10000281E08	4111	S1M10000006D07	5353	S1M10000032E11		
386	E3M10000030A09	1628	E1M10000196H06	2870	E1M10000281H09	4112	S1M10000006E07	5354	S1M10000032F11		
387	E3M10000030D09	1629	E1M10000196H07	2871	E1M10000281B10	4113	S1M10000006G07	5355	S1M10000032H11		
388	E3M10000030E09	1630	E1M10000196C08	2872	E1M10000281D11	4114	S1M10000006A08	5356	S1M10000032B12		
389	E3M10000030G09	1631	E1M10000196A10	2873	E1M10000281G11	4115	S1M10000006E08	5357	S1M10000032C12		
390	E3M10000030B10	1632	E1M10000196B10	2874	E1M10000281D12	4116	S1M10000006A10	5358	S1M10000032E12		
391	E3M10000030D10	1633	E1M10000196D11	2875	E1M10000281F12	4117	S1M10000006B10	5359	S1M10000032F12		
392	E3M10000030E10	1634	E1M10000196D12	2876	E1M10000282D01	4118	S1M10000006C10	5360	S1M10000032G12		
393	E3M10000030F10	1635	E1M10000197E02	2877	E1M10000282F01	4119	S1M10000006G10	5361	S1M10000033H01		



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395	E3M10000030A11	1637	E1M10000197A03	2879	E1M10000282A03	4121	S1M10000006G11	5363	S1M10000033B02		
396	E3M10000030B11	1638	E1M10000197D04	2880	E1M10000282F03	4122	S1M10000006A12	5364	S1M10000033D02		
397	E3M10000030H11	1639	E1M10000197B05	2881	E1M10000282C04	4123	S1M10000006B12	5365	S1M10000033F02		
398	E3M10000030B12	1640	E1M10000197E07	2882	E1M10000282E04	4124	S1M10000007F01	5366	S1M10000033H02		
399	E3M10000030C12	1641	E1M10000197E08	2883	E1M10000282F04	4125	S1M10000007B02	5367	S1M10000033D03		
400	E3M10000030D12	1642	E1M10000197H08	2884	E1M10000282H04	4126	S1M10000007F02	5368	S1M10000033F03		
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402	E3M10000030G12	1644	E1M10000197D10	2886	E1M10000282F05	4128	S1M10000007A03	5370	S1M10000033C04		
403	E3M10000031C01	1645	E1M10000197E10	2887	E1M10000282H05	4129	S1M10000007D03	5371	S1M10000033D04		
404	E3M10000031A02	1646	E1M10000197F10	2888	E1M10000282A08	4130	S1M10000007G03	5372	S1M10000033E04		
405	E3M10000031B02	1647	E1M10000197G10	2889	E1M10000282B08	4131	S1M10000007C04	5373	S1M10000033D05		
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409	E3M10000031E03	1651	E1M10000197B12	2893	E1M10000282G08	4135	S1M10000007G05	5377	S1M10000033A07		
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411	E3M10000031B04	1653	E1M10000198B03	2895	E1M10000282A09	4137	S1M10000007D06	5379	S1M10000033F07		
412	E3M10000031C04	1654	E1M10000198E04	2896	E1M10000282C09	4138	S1M10000007E06	5380	S1M10000033G07		
413	E3M10000031D04	1655	E1M10000198F04	2897	E1M10000282C11	4139	S1M10000007C07	5381	S1M10000033H07		
414	E3M10000031E04	1656	E1M10000198A05	2898	E1M10000282D11	4140	S1M10000007E07	5382	S1M10000033A08		
415	E3M10000031F04	1657	E1M10000198H05	2899	E1M10000282C12	4141	S1M10000007G07	5383	S1M10000033B08		
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417	E3M10000031G05	1659	E1M10000198F06	2901	E1M10000282G12	4143	S1M10000007E08	5385	S1M10000033F09		
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420	E3M10000031C06	1662	E1M10000198C09	2904	E1M10000283A02	4146	S1M10000007D10	5388	S1M10000033A10		
421	E3M10000031G06	1663	E1M10000198G09	2905	E1M10000283B02	4147	S1M10000007F10	5389	S1M10000033D10		
422	E3M10000031H06	1664	E1M10000198C10	2906	E1M10000283H03	4148	S1M10000007B11	5390	S1M10000033E10		
423	E3M10000031A07	1665	E1M10000198C12	2907	E1M10000283B04	4149	S1M10000007D11	5391	S1M10000033G10		
424	E3M10000031E07	1666	E1M10000199F02	2908	E1M10000283B05	4150	S1M10000008F01	5392	S1M10000033H10		
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426	E3M10000031G07	1668	E1M10000199G05	2910	E1M10000283A06	4152	S1M10000008G02	5394	S1M10000033F11		
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428	E3M10000031A08	1670	E1M10000199C06	2912	E1M10000283A07	4154	S1M10000008B03	5396	S1M10000033H11		
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432	E3M10000031B09	1674	E1M10000199G09	2916	E1M10000283F08	4158	S1M10000008B04	5400	S1M10000033G12
433	E3M10000031E09	1675	E1M10000199H09	2917	E1M10000283B10	4159	S1M10000008D05	5401	S1M10000034B01
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445	E3M10000032C01	1687	E1M10000200C02	2929	E1M10000303C01	4171	S1M10000008C09	5413	S1M10000034F03
446	E3M10000032D01	1688	E1M10000200A03	2930	E1M10000303A02	4172	S1M10000008E09	5414	S1M10000034G03
447	E3M10000032F01	1689	E1M10000200D03	2931	E1M10000303D02	4173	S1M10000008F09	5415	S1M10000034H03
448	E3M10000032G01	1690	E1M10000200B04	2932	E1M10000303A03	4174	S1M10000008B10	5416	S1M10000034A04
449	E3M10000032A02	1691	E1M10000200F04	2933	E1M10000303B03	4175	S1M10000008E10	5417	S1M10000034E04
450	E3M10000032C02	1692	E1M10000200C07	2934	E1M10000303H03	4176	S1M10000008F10	5418	S1M10000034F04
451	E3M10000032D02	1693	E1M10000200G07	2935	E1M10000303F04	4177	S1M10000008F11	5419	S1M10000034A05
452	E3M10000032F02	1694	E1M10000200D08	2936	E1M10000303B05	4178	S1M10000008A12	5420	S1M10000034B05
453	E3M10000032G02	1695	E1M10000200A09	2937	E1M10000303C05	4179	S1M10000009B01	5421	S1M10000034D05
454	E3M10000032B03	1696	E1M10000200B09	2938	E1M10000303F06	4180	S1M10000009C01	5422	S1M10000034E05
455	E3M10000032C03	1697	E1M10000200E10	2939	E1M10000303B07	4181	S1M10000009D01	5423	S1M10000034F05
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458	E3M10000032A04	1700	E1M10000201B02	2942	E1M10000303F08	4184	S1M10000009A02	5426	S1M10000034C06
459	E3M10000032B04	1701	E1M10000201C02	2943	E1M10000303D11	4185	S1M10000009B02	5427	S1M10000034D06
460	E3M10000032E04	1702	E1M10000201E03	2944	E1M10000303D12	4186	S1M10000009C02	5428	S1M10000034E06
461	E3M10000032G04	1703	E1M10000201H03	2945	E1M10000304G01	4187	S1M10000009D02	5429	S1M10000034G06
462	E3M10000032B05	1704	E1M10000201D06	2946	E1M10000304H02	4188	S1M10000009E02	5430	S1M10000034H06
463	E3M10000032E05	1705	E1M10000201G06	2947	E1M10000304A03	4189	S1M10000009F02	5431	S1M10000034B07
464	E3M10000032F05	1706	E1M10000201H07	2948	E1M10000304C03	4190	S1M10000009G02	5432	S1M10000034C07
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468	E3M10000032C06	1710	E1M10000201H09	2952	E1M10000304G05	4194	S1M10000009F03	5436	S1M10000034G07
469	E3M10000032D06	1711	E1M10000201A10	2953	E1M10000304A06	4195	S1M10000009G03	5437	S1M10000034H07
470	E3M10000032G06	1712	E1M10000201G10	2954	E1M10000304F06	4196	S1M10000009H03	5438	S1M10000034A08
471	E3M10000032H06	1713	E1M10000201F12	2955	E1M10000304A08	4197	S1M10000009A04	5439	S1M10000034B08
472	E3M10000032A07	1714	E1M10000202C02	2956	E1M10000304B10	4198	S1M10000009B04	5440	S1M10000034D08
473	E3M10000032F07	1715	E1M10000202A05	2957	E1M10000305E01	4199	S1M10000009D04	5441	S1M10000034F08
474	E3M10000032G07	1716	E1M10000202C08	2958	E1M10000305C02	4200	S1M10000009B05	5442	S1M10000034G08
475	E3M10000032A08	1717	E1M10000202H08	2959	E1M10000305G04	4201	S1M10000009C05	5443	S1M10000034H08
476	E3M10000032B08	1718	E1M10000202C09	2960	E1M10000305G09	4202	S1M10000009D05	5444	S1M10000034A09
477	E3M10000032F08	1719	E1M10000202B10	2961	E1M10000305C10	4203	S1M10000009F05	5445	S1M10000034B09
478	E3M10000032H08	1720	E1M10000203D02	2962	E1M10000305B11	4204	S1M10000009G05	5446	S1M10000034C09
479	E3M10000032A09	1721	E1M10000203G04	2963	E1M10000305C11	4205	S1M10000009H05	5447	S1M10000034F09
480	E3M10000032C09	1722	E1M10000203C05	2964	E1M10000306C01	4206	S1M10000009B06	5448	S1M10000034G09
481	E3M10000032D09	1723	E1M10000203A08	2965	E1M10000306A03	4207	S1M10000009C06	5449	S1M10000034H09
482	E3M10000032H09	1724	E1M10000203F09	2966	E1M10000306G03	4208	S1M10000009E06	5450	S1M10000034B10
483	E3M10000032A10	1725	E1M10000203F10	2967	E1M10000306E04	4209	S1M10000009F06	5451	S1M10000034D10
484	E3M10000032E10	1726	E1M10000203E11	2968	E1M10000306H04	4210	S1M10000009G06	5452	S1M10000034E10
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486	E3M10000032A11	1728	E1M10000204E02	2970	E1M10000306H07	4212	S1M10000009B07	5454	S1M10000034H10
487	E3M10000032B11	1729	E1M10000204F02	2971	E1M10000306D09	4213	S1M10000009C07	5455	S1M10000034A11
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490	E3M10000032F11	1732	E1M10000204B05	2974	E1M10000307G01	4216	S1M10000009G07	5458	S1M10000034G11
491	E3M10000032B12	1733	E1M10000204A06	2975	E1M10000307C02	4217	S1M10000009H07	5459	S1M10000034A12
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495	E3M10000032F12	1737	E1M10000204D10	2979	E1M10000307C04	4221	S1M10000009A09	5463	S1M10000034E12
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498	E3M10000033D01	1740	E1M10000205F02	2982	E1M10000307C05	4224	S1M10000009E09	5466	S1M10000035B01
499	E3M10000033F01	1741	E1M10000205G03	2983	E1M10000307D05	4225	S1M10000009F09	5467	S1M10000035C01
500	E3M10000033B02	1742	E1M10000205D08	2984	E1M10000307E05	4226	S1M10000009G09	5468	S1M10000035D01
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504	E3M10000033G02	1746	E1M10000205H11	2988	E1M10000307H06	4230	S1M10000009C10	5472	S1M100000035G02
505	E3M10000033H02	1747	E1M10000205G12	2989	E1M10000307B07	4231	S1M10000009F10	5473	S1M100000035A03
506	E3M10000033A03	1748	E1M10000206B03	2990	E1M10000307C07	4232	S1M10000009G10	5474	S1M100000035B03
507	E3M10000033E03	1749	E1M10000206A04	2991	E1M10000307G07	4233	S1M10000009A11	5475	S1M100000035E03
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521	E3M10000033E05	1763	E1M10000207G05	3005	E1M10000308A02	4247	S1M100000011F01	5489	S1M100000035A09
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535	E3M10000033E08	1777	E1M10000208H07	3019	E1M10000308E10	4261	S1M100000011H03	5503	S1M100000035D12
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541	E3M10000033D09	1783	E1M10000209H02	3025	E1M10000286C03	4267	S1M10000011G04	5509	S1M10000036D02		
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553	E3M10000033H11	1795	E1M10000210C05	3037	E1M10000286F08	4279	S1M10000012E01	5521	S1M10000036H05		
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607	E3M10000035A08	1849	E1M10000230H07	3091	E1M10000289D06	4333	S1M10000013E02	5575	S1M10000037D05		
608	E3M10000035B08	1850	E1M10000230A08	3092	E1M10000289G06	4334	S1M10000013F02	5576	S1M10000037F05		
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612	E3M10000035G08	1854	E1M10000230B11	3096	E1M10000289H08	4338	S1M10000013F03	5580	S1M10000037C06		
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620	E3M10000035D10	1862	E1M10000231H04	3104	E1M10000290G01	4346	S1M10000013C05	5588	S1M10000037H07		
621	E3M10000035E10	1863	E1M10000231B05	3105	E1M10000290A02	4347	S1M10000013G05	5589	S1M10000037A08		
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644	E3M10000036C03	1886	E1M10000214D08	3128	E1M10000291D06	4370	S1M10000013H09	5612	S1M10000037B12		
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648	E3M10000036H03	1890	E1M10000215F01	3132	E1M10000291F08	4374	S1M10000013F10	5616	S1M10000038C01
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661	E3M10000036C06	1903	E1M10000215A09	3145	E1M10000293B04	4387	S1M10000014E01	5629	S1M10000038D04
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677	E3M10000036B09	1919	E1M10000216H05	3161	E1M10000293C12	4403	S1M10000014A05	5645	S1M10000038A08
678	E3M10000036C09	1920	E1M10000216E07	3162	E1M10000293D12	4404	S1M10000014B05	5646	S1M10000038B08
679	E3M10000036D09	1921	E1M10000216A09	3163	E1M10000295D01	4405	S1M10000014C05	5647	S1M10000038C08
680	E3M10000036F09	1922	E1M10000216B10	3164	E1M10000295G01	4406	S1M10000014E05	5648	S1M10000038D08
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684	E3M10000036D10	1926	E1M10000216D12	3168	E1M10000295H04	4410	S1M10000014C06	5652	S1M10000038B09
685	E3M10000036F10	1927	E1M10000217D02	3169	E1M10000295A07	4411	S1M10000014D06	5653	S1M10000038D09
686	E3M10000036G10	1928	E1M10000217E02	3170	E1M10000295B07	4412	S1M10000014G06	5654	S1M10000038F09
687	E3M10000036H10	1929	E1M10000217H02	3171	E1M10000295C07	4413	S1M10000014H06	5655	S1M10000038H09
688	E3M10000036B11	1930	E1M10000217C04	3172	E1M10000295D08	4414	S1M10000014A07	5656	S1M10000038C10
689	E3M10000036C11	1931	E1M10000217D06	3173	E1M10000295F08	4415	S1M10000014B07	5657	S1M10000038D10
690	E3M10000036D11	1932	E1M10000217B07	3174	E1M10000295G08	4416	S1M10000014C07	5658	S1M10000038E10
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693	E3M10000037C01	1935	E1M10000217B11	3177	E1M10000295G09	4419	S1M10000014B08	5661	S1M10000038A11
694	E3M10000037E01	1936	E1M10000217C11	3178	E1M10000295D10	4420	S1M10000014D08	5662	S1M10000038C11
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714	E3M10000037H05	1956	E1M10000219C01	3198	E1M10000296H07	4440	S1M10000014B12	5682	S1M10000039G03
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716	E3M10000037C06	1958	E1M10000219E05	3200	E1M10000296F08	4442	S1M10000014E12	5684	S1M10000039C04
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720	E3M10000037B07	1962	E1M10000219C06	3204	E1M10000296B11	4446	S1M10000015G01	5688	S1M10000039F05
721	E3M10000037C07	1963	E1M10000219G07	3205	E1M10000296E11	4447	S1M10000015A02	5689	S1M10000039H05
722	E3M10000037E07	1964	E1M10000219H07	3206	E1M10000296F12	4448	S1M10000015B02	5690	S1M10000039B06
723	E3M10000037F07	1965	E1M10000219A08	3207	E1M10000296G12	4449	S1M10000015C02	5691	S1M10000039C06
724	E3M10000037G07	1966	E1M10000219A09	3208	E1M10000298C01	4450	S1M10000015D02	5692	S1M10000039H06
725	E3M10000037H07	1967	E1M10000219E09	3209	E1M10000298G01	4451	S1M10000015E02	5693	S1M10000039A07
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740	E3M10000037C12	1982	E1M10000220H05	3224	E1M10000298B09	4466	S1M10000015C05	5708	S1M10000039B10
741	E3M10000037E12	1983	E1M10000220B06	3225	E1M10000298D09	4467	S1M10000015D05	5709	S1M10000039C10
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750	E3M10000038A03	1992	E1M10000220H11	3234	E1M10000311H03	4476	S1M10000015E07	5718	S1M10000039B12
751	E3M10000038B03	1993	E1M10000221B01	3235	E1M10000311D04	4477	S1M10000015F07	5719	S1M10000039F12
752	E3M10000038C03	1994	E1M10000221E01	3236	E1M10000311E05	4478	S1M10000015G07	5720	S1M10000040B01
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756	E3M10000038D04	1998	E1M10000222D02	3240	E1M100000311E07	4482	S1M10000015G08	5724	S1M10000040G01
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759	E3M10000038A05	2001	E1M10000222B09	3243	E1M100000311C09	4485	S1M10000015E09	5727	S1M10000040F02
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761	E3M10000038C05	2003	E1M10000222C12	3245	E1M100000311C10	4487	S1M10000015G09	5729	S1M10000040H02
762	E3M10000038E05	2004	E1M10000222E12	3246	E1M100000311E11	4488	S1M10000015B10	5730	S1M10000040B03
763	E3M10000038F05	2005	E1M10000223C04	3247	E1M100000311B12	4489	S1M10000015C10	5731	S1M10000040C03
764	E3M10000038H05	2006	E1M10000223F04	3248	E1M100000311F12	4490	S1M10000015E10	5732	S1M10000040D03
765	E3M10000038B06	2007	E1M10000223H05	3249	E1M100000292C05	4491	S1M10000015F10	5733	S1M10000040F03
766	E3M10000038F06	2008	E1M10000223H11	3250	E1M100000292D08	4492	S1M10000015G10	5734	S1M10000040G03
767	E3M10000038G06	2009	E1M10000224E05	3251	E1M100000292A09	4493	S1M10000015A11	5735	S1M10000040H03
768	E3M10000038H06	2010	E1M10000225G01	3252	E1M100000292C12	4494	S1M10000015C11	5736	S1M10000040A04
769	E3M10000038A07	2011	E1M10000225A02	3253	E1M100000294F01	4495	S1M10000015E11	5737	S1M10000040C04
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780	E3M10000038H08	2022	E1M10000225H09	3264	E1M100000294C06	4506	S1M10000016D02	5748	S1M10000040C06
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786	E3M10000038C10	2028	E1M10000226C02	3270	E1M100000294F09	4512	S1M10000016A04	5754	S1M10000040E07
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792	E3M10000038D11	2034	E1M10000226H06	3276	E1M10000294E12	4518	S1M10000016B05	5760	S1M10000040D08
793	E3M10000038E11	2035	E1M10000226A08	3277	E1M10000300F05	4519	S1M10000016C05	5761	S1M10000040F08
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824	E3M10000039F06	2066	E1M10000232G08	3308	E1M10000309F12	4550	S1M10000016H10	5792	S1M10000041B06
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896	E3M10000040C12	2138	E1M10000237D08	3380	E1M10000285F12	4622	S1M10000018E05	5864	S1M10000043G01
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900	E3M10000041C01	2142	E1M10000237E11	3384	E1M10000289D04	4626	S1M10000018F06	5868	S1M10000043C02
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905	E3M10000041G02	2147	E1M10000238D04	3389	E1M10000299E01	4631	S1M10000018C08	5873	S1M10000043H03
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910	E3M10000041F03	2152	E1M10000238F06	3394	E1M10000300H10	4636	S1M10000018B09	5878	S1M10000043E05
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913	E3M10000041D04	2155	E1M10000238E08	3397	E1M10000306D03	4639	S1M10000018E09	5881	S1M10000043H05
914	E3M10000041G04	2156	E1M10000238B09	3398	E1M10000307A08	4640	S1M10000018F09	5882	S1M10000043A06
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917	E3M10000041B05	2159	E1M10000238F12	3401	E1M10000311A07	4643	S1M10000018A10	5885	S1M10000043B07
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921	E3M10000041H05	2163	E1M10000239C03	3405	E1M10000317H03	4647	S1M10000018F10	5889	S1M10000043A08
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923	E3M10000041D06	2165	E1M10000239F04	3407	E1M10000317C05	4649	S1M10000018H10	5891	S1M10000043E08
924	E3M10000041F06	2166	E1M10000239C05	3408	K1M10000002F02	4650	S1M10000018A11	5892	S1M10000043F08
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927	E3M10000041A07	2169	E1M10000239A08	3411	K1M10000007F01	4653	S1M10000018D11	5895	S1M10000043G09
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929	E3M10000041E07	2171	E1M10000239F08	3413	K1M10000013E04	4655	S1M10000018A12	5897	S1M10000043A10
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931	E3M10000041G07	2173	E1M10000239H10	3415	K1M10000015E05	4657	S1M10000018D12	5899	S1M10000043D10
932	E3M10000041A08	2174	E1M10000239G11	3416	K1M10000019D06	4658	S1M10000018E12	5900	S1M10000043E10
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936	E3M10000041F08	2178	E1M10000240A04	3420	K1M10000030C04	4662	S1M10000019C01	5904	S1M10000043C11		
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938	E3M10000041H08	2180	E1M10000240G07	3422	K1M10000030E07	4664	S1M10000019E01	5906	S1M10000043H11		
939	E3M10000041A09	2181	E1M10000240C08	3423	K1M10000032E11	4665	S1M10000019F01	5907	S1M10000043A12		
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941	E3M10000041C09	2183	E1M10000240B10	3425	K1M10000033B02	4667	S1M10000019D02	5909	S1M10000043C12		
942	E3M10000041D09	2184	E1M10000240B11	3426	K1M10000037D10	4668	S1M10000019E02	5910	S1M10000043D12		
943	E3M10000041F09	2185	E1M10000240H11	3427	K1M10000038D04	4669	S1M10000019A03	5911	S1M10000043E12		
944	E3M10000041G09	2186	E1M10000240B12	3428	K1M10000039A12	4670	S1M10000019B03	5912	S1M10000044B01		
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952	E3M10000041G10	2194	E1M10000241A08	3436	P1M10000010C03	4678	S1M10000019D05	5920	S1M10000044C04		
953	E3M10000041H10	2195	E1M10000241B08	3437	P1M10000015C09	4679	S1M10000019F05	5921	S1M10000044D04		
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966	E3M10000042D01	2208	E1M10000242H11	3450	P1M10000025H07	4692	S1M10000019B08	5934	S1M10000044H07		
967	E3M10000042G01	2209	E1M10000242E12	3451	P1M10000026H02	4693	S1M10000019C08	5935	S1M10000044A08		
968	E3M10000042A02	2210	E1M10000243F03	3452	P1M10000026F04	4694	S1M10000019F08	5936	S1M10000044B08		
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972	E3M10000042A03	2214	E1M10000243F06	3456	P1M10000026G09	4698	S1M10000019B09	5940	S1M10000044G08
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979	E3M10000042D06	2221	E1M10000244C02	3463	P1M10000029G03	4705	S1M10000019B11	5947	S1M10000044E10
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981	E3M10000042G07	2223	E1M10000244H02	3465	P1M10000029A09	4707	S1M10000019F11	5949	S1M10000044G10
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984	E3M10000042G08	2226	E1M10000244F03	3468	P1M10000033A02	4710	S1M10000019B12	5952	S1M10000044B11
985	E3M10000042H08	2227	E1M10000244A04	3469	P1M10000033E03	4711	S1M10000019C12	5953	S1M10000044C11
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987	E3M10000042D09	2229	E1M10000244E04	3471	P1M10000033B08	4713	S1M10000020E01	5955	S1M10000044E11
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1001	E3M10000043B01	2243	E1M10000245E03	3485	P1M10000040C04	4727	S1M10000020F05	5969	S1M10000045D03
1002	E3M10000043C01	2244	E1M10000245H03	3486	P1M10000040D04	4728	S1M10000020G05	5970	S1M10000045G03
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1008	E3M10000043A03	2250	E1M10000245D05	3492	P1M10000041A12	4734	S1M10000020H06	5976	S1M10000045F05		
1009	E3M10000043B03	2251	E1M10000245F06	3493	P1M10000042E08	4735	S1M10000020A07	5977	S1M10000045A06		
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1012	E3M10000043G03	2254	E1M10000245G09	3496	P1M10000043H04	4738	S1M10000020F07	5980	S1M10000045A07		
1013	E3M10000043F04	2255	E1M10000245B11	3497	P1M10000043D06	4739	S1M10000020G07	5981	S1M10000045B07		
1014	E3M10000043G04	2256	E1M10000245C11	3498	P1M10000044F07	4740	S1M10000020A08	5982	S1M10000045C07		
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1022	E3M10000043G07	2264	E1M10000246B02	3506	P1M10000047F07	4748	S1M10000020G09	5990	S1M10000045C09		
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1039	E3M10000043F10	2281	E1M10000247G01	3523	P1M10000055C08	4765	S1M10000021E01	6007	S1M10000045D12		
1040	E3M10000043G10	2282	E1M10000247E02	3524	P1M10000055A11	4766	S1M10000021G01	6008	S1M10000045E12		
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1047	E3M10000043D12	2289	E1M10000247A06	3531	P1M10000061B04	4773	S1M10000021C04	6015	S1M10000046G01
1048	E3M10000043F12	2290	E1M10000247B06	3532	P1M10000061E04	4774	S1M10000021D04	6016	S1M10000046H01
1049	E3M10000043G12	2291	E1M10000247G06	3533	P1M10000061F04	4775	S1M10000021F04	6017	S1M10000046C02
1050	E3M10000044E01	2292	E1M10000247G07	3534	P1M10000062H01	4776	S1M10000021H04	6018	S1M10000046D02
1051	E3M10000044C02	2293	E1M10000247D08	3535	P1M10000062C03	4777	S1M10000021A05	6019	S1M10000046E02
1052	E3M10000045E07	2294	E1M10000247F09	3536	P1M10000062C04	4778	S1M10000021B05	6020	S1M10000046F02
1053	E3M10000046C04	2295	E1M10000247C11	3537	P1M10000062H04	4779	S1M10000021C05	6021	S1M10000046G02
1054	E3M10000047D02	2296	E1M10000247E11	3538	P1M10000062F06	4780	S1M10000021E05	6022	S1M10000046A03
1055	E3M10000047B08	2297	E1M10000247B12	3539	P1M10000062C07	4781	S1M10000021F05	6023	S1M10000046B03
1056	E3M10000047C08	2298	E1M10000248G01	3540	P1M10000062D07	4782	S1M10000021H05	6024	S1M10000046D03
1057	E3M10000047D08	2299	E1M10000248A02	3541	P1M10000062D08	4783	S1M10000021A06	6025	S1M10000046G03
1058	E3M10000050B01	2300	E1M10000248E04	3542	P1M10000062E08	4784	S1M10000021B06	6026	S1M10000046A04
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1062	E3M10000050C02	2304	E1M10000248G06	3546	P1M10000063F02	4788	S1M10000021G06	6030	S1M10000046E04
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1065	E3M10000050H04	2307	E1M10000249E01	3549	P1M10000064C02	4791	S1M10000021C07	6033	S1M10000046C05
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1068	E3M10000050E05	2310	E1M10000249F02	3552	P1M10000064E05	4794	S1M10000021A08	6036	S1M10000046A06
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1071	E3M10000050A06	2313	E1M10000249G05	3555	P1M10000064G12	4797	S1M10000021H08	6039	S1M10000046B07
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1073	E3M10000050D06	2315	E1M10000249D06	3557	P1M10000065C03	4799	S1M10000021D09	6041	S1M10000046E07
1074	E3M10000050F06	2316	E1M10000249A07	3558	P1M10000065A04	4800	S1M10000021E09	6042	S1M10000046G07
1075	E3M10000050H06	2317	E1M10000249C07	3559	P1M10000065C05	4801	S1M10000021F09	6043	S1M10000046A08
1076	E3M10000050A07	2318	E1M10000249B08	3560	P1M10000065D06	4802	S1M10000021A10	6044	S1M10000046B08
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1081	E3M10000050H07	2323	E1M10000249E10	3565	P1M10000066A10	4807	S1M10000021F11	6049	S1M10000046A09
1082	E3M10000050B08	2324	E1M10000249D11	3566	P1M10000066A11	4808	S1M10000021H11	6050	S1M10000046B09
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1088	E3M10000050G09	2330	E1M10000250A04	3572	P1M10000067F05	4814	S1M10000022B02	6056	S1M10000046F10
1089	E3M10000050H09	2331	E1M10000250E04	3573	P1M10000067G05	4815	S1M10000022C02	6057	S1M10000046G10
1090	E3M10000050B10	2332	E1M10000250H04	3574	P1M10000067A06	4816	S1M10000022A03	6058	S1M10000046H10
1091	E3M10000051C01	2333	E1M10000250A05	3575	P1M10000067C06	4817	S1M10000022B03	6059	S1M10000046A11
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1093	E3M10000051C03	2335	E1M10000250G07	3577	P1M10000068G01	4819	S1M10000022D03	6061	S1M10000046C11
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1095	E3M10000051H03	2337	E1M10000250G09	3579	P1M10000068F04	4821	S1M10000022G03	6063	S1M10000046A12
1096	E3M10000051A04	2338	E1M10000250B10	3580	P1M10000068H05	4822	S1M10000022H03	6064	S1M10000046B12
1097	E3M10000051B04	2339	E1M10000250E10	3581	P1M10000068F08	4823	S1M10000022C04	6065	S1M10000046C12
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1103	E3M10000051D06	2345	E1M10000251F04	3587	P1M10000070E03	4829	S1M10000022E05	6071	S1M10000047G01
1104	E3M10000051F06	2346	E1M10000251H04	3588	P1M10000070A05	4830	S1M10000022H05	6072	S1M10000047B02
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1106	E3M10000051B07	2348	E1M10000251A07	3590	P1M10000070G06	4832	S1M10000022C06	6074	S1M10000047D02
1107	E3M10000051E07	2349	E1M10000251C07	3591	P1M10000070H06	4833	S1M10000022D06	6075	S1M10000047E02
1108	E3M10000051F07	2350	E1M10000251B08	3592	P1M10000070D08	4834	S1M10000022F06	6076	S1M10000047F02
1109	E3M10000051A08	2351	E1M10000251H08	3593	P1M10000070B10	4835	S1M10000022H06	6077	S1M10000047G02
1110	E3M10000051B08	2352	E1M10000251H09	3594	P1M10000070G12	4836	S1M10000022B07	6078	S1M10000047A03
1111	E3M10000051D08	2353	E1M10000251C10	3595	P1M10000071B01	4837	S1M10000022C07	6079	S1M10000047C03
1112	E3M10000051H08	2354	E1M10000251F11	3596	P1M10000071C01	4838	S1M10000022D07	6080	S1M10000047D03
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1115	E3M10000051D09	2357	E1M10000251D12	3599	P1M10000071E04	4841	S1M10000022H07	6083	S1M10000047G03
1116	E3M10000051E09	2358	E1M10000251F12	3600	P1M10000073G03	4842	S1M10000022A08	6084	S1M10000047H03
1117	E3M10000051G09	2359	E1M10000252D01	3601	P1M10000073D04	4843	S1M10000022B08	6085	S1M10000047A04
1118	E3M10000051H09	2360	E1M10000252G02	3602	P1M10000073A06	4844	S1M10000022C08	6086	S1M10000047B04
1119	E3M10000051A10	2361	E1M10000252C03	3603	P1M10000073D09	4845	S1M10000022D08	6087	S1M10000047C04
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1121	E3M10000051D10	2363	E1M10000252B04	3605	P1M10000074B01	4847	S1M10000022G08	6089	S1M10000047E04
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1125	E3M10000051A11	2367	E1M10000252A06	3609	P1M10000074F10	4851	S1M10000022B10	6093	S1M10000047A05
1126	E3M10000051D11	2368	E1M10000252D06	3610	P1M10000074G12	4852	S1M10000022B11	6094	S1M10000047B05
1127	E3M10000051E11	2369	E1M10000252A07	3611	P1M10000075F02	4853	S1M10000022C11	6095	S1M10000047C05
1128	E3M10000051F11	2370	E1M10000252H07	3612	P1M10000075B03	4854	S1M10000022D11	6096	S1M10000047D05
1129	E3M10000051G11	2371	E1M10000252A09	3613	P1M10000075A04	4855	S1M10000022F11	6097	S1M10000047E05
1130	E3M10000051F12	2372	E1M10000252E09	3614	P1M10000075C04	4856	S1M10000022H11	6098	S1M10000047F05
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1133	E3M10000050B03	2375	E1M10000252E10	3617	P1M10000076D05	4859	S1M10000022G12	6101	S1M10000047A06
1134	E3M10000050C03	2376	E1M10000252E11	3618	P1M10000076C08	4860	S1M10000023B01	6102	S1M10000047B06
1135	E3M10000050D03	2377	E1M10000252E12	3619	P1M10000076D10	4861	S1M10000023D01	6103	S1M10000047C06
1136	E3M10000050E03	2378	E1M10000253A02	3620	P1M10000077E04	4862	S1M10000023E01	6104	S1M10000047E06
1137	E3M10000050A04	2379	E1M10000253G02	3621	P1M10000077H05	4863	S1M10000023G01	6105	S1M10000047F06
1138	E3M10000050E04	2380	E1M10000253C04	3622	P1M10000077A08	4864	S1M10000023C02	6106	S1M10000047G06
1139	E3M10000050H08	2381	E1M10000253D04	3623	P1M10000077C08	4865	S1M10000023G02	6107	S1M10000047A07
1140	E3M10000052C01	2382	E1M10000253F04	3624	P1M10000096F01	4866	S1M10000023H02	6108	S1M10000047C07
1141	E3M10000052F01	2383	E1M10000253H05	3625	P1M10000096E04	4867	S1M10000023B03	6109	S1M10000047D07
1142	E3M10000052C02	2384	E1M10000253D08	3626	P1M10000096E12	4868	S1M10000023D03	6110	S1M10000047F07
1143	E3M10000052D02	2385	E1M10000253E08	3627	P1M10000097G05	4869	S1M10000023G03	6111	S1M10000047G07
1144	E3M10000052G02	2386	E1M10000253A09	3628	P1M10000059B04	4870	S1M10000023D04	6112	S1M10000047H07
1145	E3M10000052B03	2387	E1M10000253D09	3629	P1M10000059H08	4871	S1M10000023E04	6113	S1M10000047A08
1146	E3M10000052E03	2388	E1M10000253E09	3630	P1M10000059H09	4872	S1M10000023F04	6114	S1M10000047B08
1147	E3M10000052G03	2389	E1M10000253F09	3631	P1M10000059B10	4873	S1M10000023A05	6115	S1M10000047C08
1148	E3M10000052B04	2390	E1M10000253G09	3632	P1M10000059B11	4874	S1M10000023D05	6116	S1M10000047E08
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1152	E3M10000052D05	2394	E1M10000253B11	3636	P1M10000060H04	4878	S1M10000023B07	6120	S1M10000047A09
1153	E3M10000052F05	2395	E1M10000253F11	3637	P1M10000079D01	4879	S1M10000023D07	6121	S1M10000047B09
1154	E3M10000052G05	2396	E1M10000253D12	3638	P1M10000079F06	4880	S1M10000023E07	6122	S1M10000047C09
1155	E3M10000052G06	2397	E1M10000253G12	3639	P1M10000079A10	4881	S1M10000023F07	6123	S1M10000047D09
1156	E3M10000052H06	2398	E1M10000254A03	3640	P1M10000079B10	4882	S1M10000023G07	6124	S1M10000047E09
1157	E3M10000052B07	2399	E1M10000254B03	3641	P1M10000079C10	4883	S1M10000023H07	6125	S1M10000047F09
1158	E3M10000052F08	2400	E1M10000254C03	3642	P1M10000079D10	4884	S1M10000023B08	6126	S1M10000047G09
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1162	E3M10000052D11	2404	E1M10000254H05	3646	P1M10000080B06	4888	S1M10000023A09	6130	S1M10000047D10
1163	E3M10000052D12	2405	E1M10000254B06	3647	P1M10000080C06	4889	S1M10000023B09	6131	S1M10000047E10
1164	1008-H20	2406	E1M10000254A07	3648	P1M10000081G05	4890	S1M10000023D09	6132	S1M10000047F10
1165	1011-P20	2407	E1M10000254E07	3649	P1M10000081H05	4891	S1M10000023G09	6133	S1M10000047G10
1166	1053-37	2408	E1M10000254G07	3650	P1M10000081A06	4892	S1M10000023H09	6134	S1M10000047H10
1167	1010-C11	2409	E1M10000254A08	3651	P1M10000081D12	4893	S1M10000023B10	6135	S1M10000047A11
1168	1017-H1	2410	E1M10000254B09	3652	P1M10000082A02	4894	S1M10000023C10	6136	S1M10000047B11
1169	1067-16	2411	E1M10000254F10	3653	P1M10000082B04	4895	S1M10000023D10	6137	S1M10000047C11
1170	1083-27	2412	E1M10000254A11	3654	P1M10000082A05	4896	S1M10000023E10	6138	S1M10000047E11
1171	1065-12	2413	E1M10000254C11	3655	P1M10000082C05	4897	S1M10000023F10	6139	S1M10000047F11
1172	221-41	2414	E1M10000254E12	3656	P1M10000082D05	4898	S1M10000023H10	6140	S1M10000047H11
1173	B17-6.O10	2415	E1M10000255C01	3657	P1M10000082E05	4899	S1M10000023A11	6141	S1M10000047A12
1174	910-B20	2416	E1M10000255G02	3658	P1M10000083B01	4900	S1M10000023B11	6142	S1M10000047B12
1175	B18-2.N21	2417	E1M10000255H02	3659	P1M10000083A11	4901	S1M10000023C11	6143	S1M10000047C12
1176	971-B20	2418	E1M10000255A04	3660	P1M10000083B12	4902	S1M10000023E11	6144	S1M10000047D12
1177	D1-1.A15	2419	E1M10000255D05	3661	P1M10000083C12	4903	S1M10000023F11	6145	S1M10000047E12
1178	4-28.1	2420	E1M10000255F06	3662	P1M10000084D03	4904	S1M10000023G11	6146	S1M10000047F12
1179	D1-2.B13	2421	E1M10000255G06	3663	P1M10000084A04	4905	S1M10000023A12	6147	S1M10000048C01
1180	D1-2.P21	2422	E1M10000255B08	3664	P1M10000084E04	4906	S1M10000023B12	6148	S1M10000048D01
1181	Z56-D2	2423	E1M10000255D09	3665	P1M10000084F08	4907	S1M10000023C12	6149	S1M10000048G01
1182	PJMF55	2424	E1M10000255F09	3666	P1M10000084E11	4908	S1M10000023D12	6150	S1M10000048H01
1183	R1-15.A13	2425	E1M10000255B10	3667	P1M10000085D06	4909	S1M10000023F12	6151	S1M10000048A02
1184	R1-19.H1	2426	E1M10000256F01	3668	P1M10000086B01	4910	S1M10000024D01	6152	S1M10000048B02
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1188	E1M10000007B04	2430	E1M10000256C05	3672	P1M10000086E05	4914	S1M10000024F02	6156	S1M10000048F02		
1189	227-10	2431	E1M10000256E07	3673	P1M10000087E04	4915	S1M10000024H02	6157	S1M10000048G02		
1190	709-F23	2432	E1M10000256E09	3674	P1M10000087F04	4916	S1M10000024D03	6158	S1M10000048H02		
1191	801-C15	2433	E1M10000256A10	3675	P1M10000087C09	4917	S1M10000024E03	6159	S1M10000048A03		
1192	801-H19	2434	E1M10000256F10	3676	P1M10000087F09	4918	S1M10000024F03	6160	S1M10000048B03		
1193	804-P6	2435	E1M10000256C12	3677	P1M10000087A11	4919	S1M10000024A04	6161	S1M10000048C03		
1194	807-D20	2436	E1M10000257C01	3678	P1M10000088C04	4920	S1M10000024C04	6162	S1M10000048E03		
1195	B13-17.G8	2437	E1M10000257G01	3679	P1M10000088A07	4921	S1M10000024D04	6163	S1M10000048F03		
1196	B5-6.C8	2438	E1M10000257A02	3680	P1M10000089G08	4922	S1M10000024H04	6164	S1M10000048G03		
1197	B8-2.D9	2439	E1M10000257D02	3681	P1M10000089D11	4923	S1M10000024B05	6165	S1M10000048H03		
1198	B15-8.P13	2440	E1M10000257H02	3682	P1M10000090E01	4924	S1M10000024E05	6166	S1M10000048E04		
1199	T13-5.A2	2441	E1M10000257C03	3683	P1M10000090F06	4925	S1M10000024F05	6167	S1M10000048G04		
1200	T12-3.I11	2442	E1M10000257F04	3684	P1M10000090F08	4926	S1M10000024G05	6168	S1M10000048H04		
1201	T20-15.D4	2443	E1M10000257G04	3685	P1M10000090B11	4927	S1M10000024B06	6169	S1M10000048A05		
1202	T24-15.G6	2444	E1M10000257B05	3686	P1M10000091A09	4928	S1M10000024E06	6170	S1M10000048B05		
1203	T24-17.C6	2445	E1M10000257D05	3687	P1M10000091E09	4929	S1M10000024G06	6171	S1M10000048C05		
1204	244.B12	2446	E1M10000257F06	3688	P1M10000091G10	4930	S1M10000024H06	6172	S1M10000048F05		
1205	1042-J1	2447	E1M10000257G07	3689	P1M10000092B02	4931	S1M10000024A07	6173	S1M10000048G05		
1206	195.F5	2448	E1M10000257H07	3690	P1M10000092E02	4932	S1M10000024C07	6174	S1M10000048H05		
1207	25.D5	2449	E1M10000257H08	3691	P1M10000092B04	4933	S1M10000024E07	6175	S1M10000048A06		
1208	25.D6	2450	E1M10000257A09	3692	P1M10000092F05	4934	S1M10000024G07	6176	S1M10000048B06		
1209	177.F3	2451	E1M10000257D09	3693	P1M10000092F06	4935	S1M10000024H07	6177	S1M10000048C06		
1210	525.H11	2452	E1M10000257G10	3694	P1M10000092D09	4936	S1M10000024A08	6178	S1M10000048E06		
1211	632.N2	2453	E1M10000257H10	3695	P1M10000092B10	4937	S1M10000024B08	6179	S1M10000048A07		
1212	633.B7	2454	E1M10000257A11	3696	P1M10000092B12	4938	S1M10000024E08	6180	S1M10000048C07		
1213	671.I20	2455	E1M10000257C11	3697	P1M10000093A03	4939	S1M10000024F08	6181	S1M10000048E07		
1214	676.B12	2456	E1M10000257F11	3698	P1M10000093B03	4940	S1M10000024G08	6182	S1M10000048F07		
1215	643.B19	2457	E1M10000257B12	3699	P1M10000093F03	4941	S1M10000024H08	6183	S1M10000048G07		
1216	720.O16	2458	E1M10000257F12	3700	P1M10000093H07	4942	S1M10000024B09	6184	S1M10000048H07		
1217	666.H12	2459	E1M10000258C01	3701	P1M10000093C08	4943	S1M10000024B10	6185	S1M10000048B08		
1218	98.D4	2460	E1M10000258H02	3702	P1M10000093B09	4944	S1M10000024D10	6186	S1M10000048C08		
1219	844.B21	2461	E1M10000258G03	3703	P1M10000093E09	4945	S1M10000024F10	6187	S1M10000048D08		
1220	P31-25-F3	2462	E1M10000258A04	3704	P1M10000094H03	4946	S1M10000024G10	6188	S1M10000048E08		
1221	P335-8.H8	2463	E1M10000258C04	3705	P1M10000094F04	4947	S1M10000024A11	6189	S1M10000048F08		



SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name
1222	P347.2	2464	E1M10000258G04	3706	P1M10000094H04	4948	S1M10000024D11	6190	S1M10000048H08		
1223		2465	E1M10000258C05	3707	P1M10000094A10	4949	S1M10000024G12	6191	S1M10000048A09		
1224	P336-14.F20	2466	E1M10000258D05	3708	P1M10000095C01	4950	S1M10000025B01	6192	S1M10000048C09		
1225	P31-27.M1	2467	E1M10000258F05	3709	P1M10000095E04	4951	S1M10000025C01	6193	S1M10000048D09		
1226	P338-4.M21	2468	E1M10000258G05	3710	P1M10000095G04	4952	S1M10000025D01	6194	S1M10000048E09		
1227	P334-8.L7	2469	E1M10000258A06	3711	P1M10000095C09	4953	S1M10000025E01	6195	S1M10000048F09		
1228	P31-2-E16	2470	E1M10000258D06	3712	P1M10000102E05	4954	S1M10000025B02	6196	S1M10000048H09		
1229	P335-3.J14	2471	E1M10000258B07	3713	P1M10000102B07	4955	S1M10000025A03	6197	S1M10000048A10		
1230	P334-5.H2	2472	E1M10000258G07	3714	P1M10000103B05	4956	S1M10000025B03	6198	S1M10000048B10		
1231	P31-33-N2	2473	E1M10000258G08	3715	P1M10000103D06	4957	S1M10000025C03	6199	S1M10000048C10		
1232	P332-11.C20	2474	E1M10000258B09	3716	P1M10000103E08	4958	S1M10000025D03	6200	S1M10000048D10		
1233	869.A23	2475	E1M10000258D09	3717	P1M10000104A02	4959	S1M10000025F03	6201	S1M10000048E10		
1234	P317-2.A3	2476	E1M10000258F10	3718	P1M10000104H02	4960	S1M10000025D04	6202	S1M10000048G10		
1235	P326-9.K2	2477	E1M10000258C11	3719	P1M10000104A03	4961	S1M10000025E04	6203	S1M10000048H10		
1236	P323-8.P1	2478	E1M10000258F11	3720	P1M10000104E03	4962	S1M10000025G04	6204	S1M10000048A11		
1237	P35-8	2479	E1M10000259C03	3721	P1M10000104F07	4963	S1M10000025B05	6205	S1M10000048C11		
1238	P36-13.E2	2480	E1M10000259B04	3722	P1M10000104D11	4964	S1M10000025C05	6206	S1M10000048D11		
1239	P38-1.G20	2481	E1M10000259E04	3723	P1M10000105D01	4965	S1M10000025F05	6207	S1M10000048F11		
1240	P327-50.M10	2482	E1M10000259E05	3724	P1M10000105E02	4966	S1M10000025H05	6208	S1M10000048G11		
1241	P328-8.D21	2483	E1M10000259B12	3725	P1M10000105C03	4967	S1M10000025B06	6209	S1M10000048H11		
1242	P328-20.P20	2484	E1M10000260E02	3726	P1M10000105G03	4968	S1M10000025D06	6210	S1M10000048A12		



## EXAMPLE 3

Comparison Of Isolated Nucleic Acids to Known Sequences

The nucleotide sequences of the subcloned fragments from *Escherichia coli*, *Staphylococcus aureus*, *Enterococcus faecalis*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa* and *Salmonella typhimurium* obtained from the expression vectors discussed above were compared to known sequences from *Escherichia coli*, *Staphylococcus aureus*, *Enterococcus faecalis*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, *Salmonella typhimurium* and other microorganisms as follows. First, to confirm that each clone originated from one location on the chromosome and was not chimeric, the nucleotide sequences of the selected clones were compared against the *Escherichia coli*, *Staphylococcus aureus*, *Enterococcus faecalis*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa* or *Salmonella typhimurium* genomic sequences to align the clone to the correct position on the chromosome. The NCBI BLASTN v 2.0.9 program was used for this comparison, and the incomplete *Staphylococcus aureus* genomic sequences licensed from TIGR, as well as the NCBI nonredundant GenBank database were used as the source of genomic data. *Salmonella typhimurium* sequences were compared to sequences available from the Genome Sequencing Center (<http://genome.wustl.edu/gsc/salmonella.shtml>), and the Sanger Centre ([http://www.sanger.ac.uk/projects/S\\_\\_typhi](http://www.sanger.ac.uk/projects/S__typhi)). *Pseudomonas aeruginosa* sequences were compared to a proprietary database and the NCBI GenBank database. The *E. faecalis* sequences were compared to a proprietary database.

The BLASTN analysis was performed using the default parameters except that the filtering was turned off. No further analysis was performed on inserts which resulted from the ligation of multiple fragments.

In general, antisense molecules and their complementary genes are identified as follows. First, all possible full length open reading frames (ORFs) are extracted from available genomic databases. Such databases include the GenBank nonredundant (nr) database, the unfinished genome database available from TIGR and the PathoSeq database developed by Incyte Genomics. The latter database comprises over 40 annotated bacterial genomes including complete ORF analysis. If databases are incomplete with regard to the bacterial genome of interest, it is not necessary to extract all ORFs in the genome but only to extract the ORFs within the portions of the available genomic sequences which are complementary to the clones of interest. Computer algorithms for identifying ORFs, such as GeneMark, are available and well known to those in the art. Comparison of the clone DNA to the complementary ORF(s) allows determination of whether the clone is a sense or antisense clone. Furthermore, each ORF extracted from the database can be compared to sequences in well annotated databases including the GenBank (nr) protein database, SWISSPROT and the like. A description of the gene or of a closely related gene in a closely related microorganism is often available in these databases. Similar methods are used to identify antisense clones corresponding to genes encoding non-translated RNAs.



In order to generate the gene identification data compiled in Table IB, each of the cloned nucleic acid sequences discussed above corresponding to SEQ ID NO.s 1-6213 was used to identify the corresponding *Escherichia coli*, *Staphylococcus aureus*, *Enterococcus faecalis*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa* or *Salmonella typhimurium* ORFs in the PathoSeq v.4.1 (March 2000 release) database of microbial genomic sequences. For this purpose, the NCBI BLASTN 2.0.9 computer algorithm was used. The default parameters were used except that filtering was turned off. The default parameters for the BLASTN and BLASTX analyses were:

Expectation value (e)=10  
 Alignment view options: pairwise  
 10 Filter query sequence (DUST with BLASTN, SEG with others)=T  
 Cost to open a gap (zero invokes behavior)=0  
 Cost to extend a gap (zero invokes behavior)=0  
 X dropoff value for gapped alignment (in bits) (zero invokes behavior)=0  
 Show GI's in deflines=F  
 15 Penalty for a nucleotide mismatch (BLASTN only)=!3  
 Reward for a nucleotide match (BLASTN only)=1  
 Number of one-line descriptions (V)=500  
 Number of alignments to show (B)=250  
 Threshold for extending hits=default  
 20 Perform gapped alignment (not available with BLASTX)=T  
 Query Genetic code to use=1  
 DB Genetic code (for TBLAST[nx] only)=1  
 Number of processors to use=1  
 SeqAlign file  
 25 Believe the query defline=F  
 Matrix=BLOSUM62  
 Word Size= default  
 Effective length of the database (use zero for the real size)=0  
 Number of best hits from a region to keep=100  
 30 Length of region used to judge hits=20  
 Effective length of the search space (use zero for the real size)=0  
 Query strands to search against database (for BLAST[nx] and TBLASTX), 3 is both, 1 is top, 2 is bottom=3  
 Produce HTML output=F

35

Alternatively, ORFs were identified and refined by conducting a survey of the public and private data sources. Full-length gene protein and nucleotide sequences for these organisms were assembled from various sources. For *Pseudomonas aeruginosa*, gene sequences were adopted from the *Pseudomonas* genome sequencing project (downloaded from <http://www.pseudomonas.com>).  
 40 For *Klebsiella pneumoniae*, *Staphylococcus aureus*, *Streptococcus pneumoniae* and *Salmonella typhi*, genomic sequences from PathoSeq v 4.1 (Mar 2000 release) was reanalyzed for ORFs using the gene finding software GeneMark v 2.4a, which was purchased from GenePro Inc. 451 Bishop St., N.W., Suite B, Atlanta, GA, 30318, USA.

Antisense clones were identified as those clones for which transcription from the inducible  
 45 promoter would result in the expression of an RNA antisense to a complementary ORF, intergenic



or intragenic sequence. Those clones containing single inserts and that caused growth sensitivity upon induction are listed in Table IA.

The gene descriptions in the PathoSeq database derive from annotations available in the public sequence databases described above. Where a clone was found to share significant sequence identity to two or more adjacent ORFs, it was listed once for each ORF and the PathoSeq information for each ORF was compiled in Table IB.

Table IA lists the SEQ ID NOs. and clone names of the inserts which inhibited proliferation. This information was used to identify the ORFs (SEQ ID NOs.: 6214-42397) whose gene products (SEQ ID NOs. 42398-78581) were inhibited by the nucleic acids comprising the nucleotide sequences of SEQ ID NOs. 1-6213. Table IB lists the clone name and the PathoSeq Locus containing the clone.



TABLE IB

Clone Name	Gene LocusID	Clone Name	Gene LocusID	Clone Name	Gene LocusID
E3M10000001B01	EFA205257	E1M10000233C05	ECO103161	S1M10000005E05	SAU802496
E3M10000001B01	EFA205258	E1M10000233H05	ECO103224	S1M10000005C06	SAU802121
E3M10000001A02	EFA205257	E1M10000233H05	ECO103225	S1M10000005D06	SAU801183
E3M10000001A02	EFA205258	E1M10000233D08	ECO103185	S1M10000005D06	SAU801184
E3M10000001B02	EFA205225	E1M10000233F08	ECO103265	S1M10000005A07	SAU800967
E3M10000001B02	EFA201977	E1M10000233F08	ECO103266	S1M10000005B07	SAU802496
E3M10000001B02	EFA203137	E1M10000233A09	ECO104092	S1M10000005D07	SAU801264
E3M10000001C02	EFA200840	E1M10000233A09	ECO104093	S1M10000005A08	SAU802496
E3M10000001D02	EFA202003	E1M10000233E09	ECO103238	S1M10000005B08	SAU800548
E3M10000001E02	EFA200840	E1M10000233E09	ECO103239	S1M10000005D08	SAU800607
E3M10000001F02	EFA200807	E1M10000233F09	ECO103886	S1M10000005E08	SAU802496
E3M10000001G02	EFA205257	E1M10000233D10	ECO103242	S1M10000005B09	SAU800122
E3M10000001G02	EFA205258	E1M10000233D10	ECO103243	S1M10000005C09	SAU801481
E3M10000001H02	EFA200811	E1M10000233H10	ECO100094	S1M10000005D09	SAU800542
E3M10000001E03	EFA201987	E1M10000234E01	ECO103884	S1M10000005A10	SAU801723
E3M10000001E03	EFA205258	E1M10000234B02	ECO103886	S1M10000005A10	SAU801722
E3M10000001G03	EFA201987	E1M10000234G02	ECO103233	S1M10000005A11	SAU801644
E3M10000001G03	EFA205258	E1M10000234G02	ECO103234	S1M10000005C11	SAU801113
E3M10000001H03	EFA201987	E1M10000234C05	ECO103181	S1M10000005D11	SAU800547
E3M10000001H03	EFA205258	E1M10000234C07	ECO103844	S1M10000005E11	SAU800155
E3M10000001D04	EFA201980	E1M10000234C08	ECO103878	S1M10000005B12	SAU802160
E3M10000001D04	EFA201981	E1M10000234C08	ECO204942	S1M10000005B12	SAU603460
E3M10000001D04	EFA205229	E1M10000234F08	ECO103461	S1M10000005D12	SAU801644
E3M10000001E04	EFA201028	E1M10000234H08	ECO103226	S1M10000006F01	SAU801264
E3M10000001F04	EFA200811	E1M10000234F09	ECO103055	S1M10000006B02	SAU800381
E3M10000001G04	EFA201993	E1M10000234D10	ECO100876	S1M10000006E02	SAU802496
E3M10000001H04	EFA201980	E1M10000234G10	ECO100886	S1M10000006F02	SAU802160
E3M10000001H04	EFA201981	E1M10000234B12	ECO104010	S1M10000006G02	SAU802125
E3M10000001H04	EFA205229	E1M10000235D01	ECO102233	S1M10000006A03	SAU802496
E3M10000001B05	EFA201993	E1M10000235A03	ECO100798	S1M10000006B03	SAU802655
E3M10000001D05	EFA201974	E1M10000235H03	ECO103886	S1M10000006D03	SAU801740
E3M10000001D05	EFA201975	E1M10000235E04	ECO103236	S1M10000006E03	SAU801256
E3M10000001G05	EFA202001	E1M10000235B06	ECO103886	S1M10000006F03	SAU801434
E3M10000001G05	EFA202003	E1M10000235F06	ECO103481	S1M10000006G03	SAU801275
E3M10000001A06	EFA201028	E1M10000235B08	ECO103885	S1M10000006A04	SAU801139
E3M10000001F06	EFA201028	E1M10000235E08	ECO103161	S1M10000006B04	SAU802496
E3M10000001B08	EFA201028	E1M10000235B09	ECO101848	S1M10000006C04	SAU802158
E3M10000001E08	EFA200807	E1M10000235H09	ECO103481	S1M10000006E04	SAU801089
E3M10000001C09	EFA200839	E1M10000235H09	ECO103482	S1M10000006F04	SAU801644
E3M10000001D09	EFA201987	E1M10000235B10	ECO100886	S1M10000006G04	SAU801740
E3M10000001D09	EFA205258	E1M10000235A11	ECO102299	S1M10000006A05	SAU802224
E3M10000001E09	EFA201987	E1M10000235F12	ECO103233	S1M10000006A05	SAU802223
E3M10000001E09	EFA205258	E1M10000235F12	ECO103234	S1M10000006D05	SAU802496
E3M10000001B10	EFA205257	E1M10000236E01	ECO100095	S1M10000006G05	SAU801256
E3M10000001B10	EFA205258	E1M10000236A02	ECO102340	S1M10000006C06	SAU800331
E3M10000004D01	EFA201985	E1M10000236E02	ECO103878	S1M10000006C06	SAU800332
E3M10000004D01	EFA201984	E1M10000236E02	ECO204942	S1M10000006D06	SAU802496
E3M10000004D01	EFA202953	E1M10000236A03	ECO103287	S1M10000006F06	SAU800548
E3M10000004G01	EFA200839	E1M10000236D03	ECO102556	S1M10000006G06	SAU800006
E3M10000004D02	EFA202022	E1M10000236G03	ECO102655	S1M10000006A07	SAU800967
E3M10000004D02	EFA202028	E1M10000236A04	ECO103186	S1M10000006B07	SAU801760



Clone Name	Gene LocusID	Clone Name	Gene LocusID	Clone Name	Gene LocusID
E3M10000004D02	EFA202536	E1M10000236D04	ECO103481	S1M10000006C07	SAU800546
E3M10000004C03	EFA200412	E1M10000236G04	ECO103510	S1M10000006D07	SAU801105
E3M10000004A04	EFA201981	E1M10000236A05	ECO102847	S1M10000006E07	SAU802496
E3M10000004A04	EFA205229	E1M10000236F05	ECO103181	S1M10000006G07	SAU801731
E3M10000004F08	EFA201977	E1M10000236F05	ECO103182	S1M10000006A08	SAU802496
E3M10000004F08	EFA203137	E1M10000236H06	ECO103242	S1M10000006E08	SAU802238
E3M10000004D10	EFA201999	E1M10000236H06	ECO103243	S1M10000006A10	SAU802496
E3M10000004D10	EFA201997	E1M10000236D08	ECO103669	S1M10000006B10	SAU802240
E3M10000004F10	EFA200624	E1M10000236F09	ECO103228	S1M10000006C10	SAU802496
E3M10000004E11	EFA200624	E1M10000236C10	ECO102227	S1M10000006G10	SAU802247
E3M10000004H11	EFA205225	E1M10000236A11	ECO102986	S1M10000006G10	SAU802248
E3M10000004H11	EFA201977	E1M10000236C11	ECO101088	S1M10000006B11	SAU801618
E3M10000004H11	EFA203137	E1M10000236F12	ECO101355	S1M10000006G11	SAU802119
E3M10000005B01	EFA201984	E1M10000237A02	ECO103161	S1M10000006G11	SAU802118
E3M10000005B01	EFA201983	E1M10000237B02	ECO101830	S1M10000006A12	SAU800548
E3M10000005C01	EFA200839	E1M10000237E04	ECO103217	S1M10000006B12	SAU802558
E3M10000005E01	EFA201977	E1M10000237E04	ECO103218	S1M10000007F01	SAU801256
E3M10000005E01	EFA203137	E1M10000237H04	ECO103624	S1M10000007B02	SAU800591
E3M10000005E02	EFA201977	E1M10000237H04	ECO103625	S1M10000007B02	SAU800592
E3M10000005E02	EFA203137	E1M10000237G06	ECO103232	S1M10000007F02	SAU801366
E3M10000005C03	EFA200811	E1M10000237G06	ECO103233	S1M10000007G02	SAU801138
E3M10000005C03	EFA200812	E1M10000237C07	ECO103886	S1M10000007A03	SAU801899
E3M10000005D03	EFA200811	E1M10000237G07	ECO103263	S1M10000007D03	SAU802496
E3M10000005D03	EFA200812	E1M10000237H07	ECO102267	S1M10000007G03	SAU800967
E3M10000005E03	EFA200811	E1M10000237A08	ECO103217	S1M10000007C04	SAU801740
E3M10000005E03	EFA200812	E1M10000237A08	ECO103216	S1M10000007E04	SAU802496
E3M10000005C04	EFA200660	E1M10000237B08	ECO101185	S1M10000007F04	SAU800478
E3M10000005C04	EFA200661	E1M10000237B08	ECO101186	S1M10000007C05	SAU800547
E3M10000005D04	EFA200839	E1M10000237D08	ECO103217	S1M10000007G05	SAU800548
E3M10000005H04	EFA200839	E1M10000237D08	ECO103216	S1M10000007C06	SAU801900
E3M10000005G05	EFA201977	E1M10000237E08	ECO103262	S1M10000007D06	SAU800547
E3M10000005G05	EFA203137	E1M10000237E08	ECO103878	S1M10000007E06	SAU801113
E3M10000005A07	EFA200811	E1M10000237E08	ECO204942	S1M10000007C07	SAU801904
E3M10000005A07	EFA200812	E1M10000237B09	ECO101844	S1M10000007E07	SAU801618
E3M10000005F07	EFA200839	E1M10000237D10	ECO102060	S1M10000007G07	SAU802638
E3M10000005B08	EFA201977	E1M10000237D10	ECO102061	S1M10000007C08	SAU800482
E3M10000005B08	EFA203137	E1M10000237E11	ECO100169	S1M10000007E08	SAU800700
E3M10000005E08	EFA202276	E1M10000238G01	ECO103451	S1M10000007F08	SAU802261
E3M10000005D10	EFA201977	E1M10000238A02	ECO103514	S1M10000007F09	SAU800210
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E3M10000052G03	EFA200326	E1M10000291G05	ECO102555	S1M10000029F10	SAU800266
E3M10000052B04	EFA200290	E1M10000291G05	ECO102556	S1M10000029H10	SAU801139



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801-H19	ECO100488	E1M10000295E02	ECO103218	S1M10000030A10	SAU802308
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807-D20	ECO100366	E1M10000295B07	ECO100179	S1M10000030G10	SAU800019
807-D20	ECO100367	E1M10000295B07	ECO100180	S1M10000030H10	SAU802654
B13-17.G8	ECO101111	E1M10000295C07	ECO103224	S1M10000030A11	SAU800517
B5-6.C8	ECO101475	E1M10000295C07	ECO103225	S1M10000030A11	SAU202623
B5-6.C8	ECO101476	E1M10000295C07	ECO103226	S1M10000030D11	SAU800517
B5-6.C8	ECO201962	E1M10000295D08	ECO103225	S1M10000030D11	SAU202623
B8-2.D9	ECO103461	E1M10000295D08	ECO103226	S1M10000030E11	SAU802241
B15-8.P13	ECO101328	E1M10000295F08	ECO103160	S1M10000030G11	SAU800811
B15-8.P13	ECO101329	E1M10000295G08	ECO103217	S1M10000030C12	SAU801647
T13-5.A2	ECO103059	E1M10000295G08	ECO103218	S1M10000030C12	SAU801646
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T20-15.D4	ECO101475	E1M10000295F09	ECO103881	S1M10000030G12	SAU801526
T20-15.D4	ECO101476	E1M10000295F09	ECO103882	S1M10000031B01	SAU802240
T20-15.D4	ECO201962	E1M10000295G09	ECO103263	S1M10000031H01	SAU800023
T24-15.G6	ECO103059	E1M10000295D10	ECO103101	S1M10000031B02	SAU802247
T24-17.C6	ECO102857	E1M10000295H10	ECO103263	S1M10000031E02	SAU801912
244.B12	ECO101763	E1M10000295B11	ECO103229	S1M10000031F02	SAU802231
244.B12	ECO101764	E1M10000295F11	ECO100954	S1M10000031F02	SAU802230
244.B12	ECO101765	E1M10000295G12	ECO103494	S1M10000031G02	SAU802235
1042-J1	ECO100702	E1M10000312D11	ECO104091	S1M10000031G02	SAU802234
1042-J1	ECO100703	E1M10000312D11	ECO104092	S1M10000031H02	SAU801355
195.F5	ECO102842	E1M10000296B01	ECO102304	S1M10000031A03	SAU802250
25.D5	ECO103059	E1M10000296C02	ECO102466	S1M10000031E03	SAU801134
25.D6	ECO103059	E1M10000296C02	ECO102467	S1M10000031E03	SAU801135
177.F3	ECO102309	E1M10000296D02	ECO103235	S1M10000031F03	SAU802240
525.H11	ECO102857	E1M10000296D02	ECO103236	S1M10000031G03	SAU801505
632.N2	ECO104277	E1M10000296D02	ECO103237	S1M10000031A04	SAU801434
633.B7	ECO103479	E1M10000296H02	ECO102556	S1M10000031A04	SAU302892
671.I20	ECO103478	E1M10000296C03	ECO100150	S1M10000031B04	SAU800543
676.B12	ECO103479	E1M10000296C03	ECO100151	S1M10000031C04	SAU800738
643.B19	ECO100702	E1M10000296E03	ECO101086	S1M10000031C04	SAU800737
720.O16	ECO103884	E1M10000296H03	ECO103227	S1M10000031E04	SAU800542
666.H12	ECO103478	E1M10000296H03	ECO103228	S1M10000031F04	SAU801517
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98.D4	ECO103263	E1M10000296G04	ECO102144	S1M10000031G04	SAU302611
844.B21	ECO102144	E1M10000296F05	ECO103886	S1M10000031G04	SAU302882
P31-25-F3	ECO101686	E1M10000296G05	ECO101467	S1M10000031F05	SAU800548
P335-8.H8	ECO101041	E1M10000296H05	ECO103094	S1M10000031D06	SAU801526
P347.2	ECO101086	E1M10000296A06	ECO100194	S1M10000031G06	SAU800548
P31-11-J20	ECO103228	E1M10000296A06	ECO100195	S1M10000031H06	SAU600582
P336-14.F20	ECO101370	E1M10000296G07	ECO102827	S1M10000031C07	SAU801760
P31-27-M1	ECO103423	E1M10000296G07	ECO102828	S1M10000031D07	SAU801181
P338-4.M21	ECO100139	E1M10000296H07	ECO103220	S1M10000031E07	SAU800016
P334-8.L7	ECO101256	E1M10000296H07	ECO103221	S1M10000031A08	SAU802365
P31-2-E16	ECO101686	E1M10000296E08	ECO100886	S1M10000031D08	SAU801790
P335-3.J14	ECO100523	E1M10000296F08	ECO103218	S1M10000031E08	SAU800547
P334-5.H2	ECO100139	E1M10000296G08	ECO103734	S1M10000031F08	SAU801264
P31-33-N2	ECO103241	E1M10000296H08	ECO100809	S1M10000031C09	SAU801193
P332-11.C20	ECO102827	E1M10000296H08	ECO100810	S1M10000031D09	SAU800019
P332-11.C20	ECO102828	E1M10000296A09	ECO100194	S1M10000031G09	SAU800006
869.A23	ECO100390	E1M10000296B11	ECO103229	S1M10000031H09	SAU801599



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P323-8.P1	ECO101685	E1M10000296G12	ECO100095	S1M10000031F10	SAU800244
P35-8	ECO103692	E1M10000298C01	ECO101438	S1M10000031G10	SAU800962
P36-13.E2	ECO103059	E1M10000298G01	ECO104148	S1M10000031A11	SAU801741
P38-1.G20	ECO102227	E1M10000298G01	ECO104149	S1M10000031B11	SAU801908
P327-50.M10	ECO103242	E1M10000298G02	ECO102636	S1M10000031C11	SAU802152
P327-50.M10	ECO103243	E1M10000298C03	ECO103238	S1M10000031F11	SAU800312
P328-8.D21	ECO103240	E1M10000298C03	ECO103239	S1M10000031G11	SAU801234
P328-8.D21	ECO103241	E1M10000298D03	ECO103886	S1M10000031H11	SAU800962
P328-20.P20	ECO100541	E1M10000298H03	ECO103262	S1M10000031B12	SAU801621
P33-1.C22	ECO103227	E1M10000298H03	ECO103878	S1M10000031C12	SAU801741
X3S107-17	ECO101475	E1M10000298H03	ECO204942	S1M10000031E12	SAU801275
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P35-7	ECO103928	E1M10000298H04	ECO100809	S1M10000032C01	SAU800548
X3S118-9	ECO103263	E1M10000298H04	ECO100808	S1M10000032F01	SAU800525
X3S163-1	ECO103423	E1M10000298C05	ECO103234	S1M10000032F01	SAU800524
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P342-3	ECO102104	E1M10000298D05	ECO101539	S1M10000032E02	SAU801096
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SC13.1	ECO101348	E1M10000298G06	ECO100096	S1M10000032C03	SAU800771
MC9.6	ECO102929	E1M10000298B07	ECO100095	S1M10000032D03	SAU801235
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E1M10000220B03	ECO101324	S1M10000002D08	SAU801900	S1M10000047G05	SAU801669
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E1M10000222F05	ECO101476	S1M10000003C06	SAU800014	S1M10000047A10	SAU801301
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E1M10000225F04	ECO101583	S1M10000003B12	SAU302892	S1M10000048C01	SAU800753
E1M10000225A06	ECO103218	S1M10000003C12	SAU800548	S1M10000048D01	SAU802654
E1M10000225B06	ECO101259	S1M10000003F12	SAU801621	S1M10000048G01	SAU800363
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Clone Name	Gene LocusID	Clone Name	Gene LocusID	Clone Name	Gene LocusID
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E1M10000225H09	ECO101989	S1M10000004G01	SAU802496	S1M10000048D02	SAU802548
E1M10000225F10	ECO101684	S1M10000004C02	SAU802496	S1M10000048D02	SAU104011
E1M10000225D12	ECO102966	S1M10000004F02	SAU800546	S1M10000048E02	SAU800753
E1M10000225D12	ECO102967	S1M10000004B03	SAU800257	S1M10000048F02	SAU802107
E1M10000225G12	ECO101128	S1M10000004B03	SAU800258	S1M10000048G02	SAU800019
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E1M10000226B02	ECO103515	S1M10000004A04	SAU802655	S1M10000048B03	SAU801184
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E1M10000226F02	ECO102999	S1M10000004D04	SAU802223	S1M10000048E03	SAU802586
E1M10000226D03	ECO103160	S1M10000004E04	SAU802247	S1M10000048E03	SAU802585
E1M10000226G03	ECO103696	S1M10000004G05	SAU800548	S1M10000048F03	SAU802226
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E1M10000226H06	ECO103848	S1M10000004D06	SAU800006	S1M10000048E04	SAU801183
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E1M10000226D08	ECO101753	S1M10000004F06	SAU800152	S1M10000048H04	SAU802586
E1M10000226D09	ECO100430	S1M10000004A07	SAU802503	S1M10000048H04	SAU802585
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E1M10000226B10	ECO102113	S1M10000004E07	SAU802177	S1M10000048B05	SAU800753
E1M10000226D10	ECO101623	S1M10000004E07	SAU802176	S1M10000048C05	SAU801891
E1M10000226E10	ECO102714	S1M10000004F07	SAU801683	S1M10000048F05	SAU801184
E1M10000226G11	ECO103244	S1M10000004G07	SAU801644	S1M10000048G05	SAU800542
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E1M10000226F12	ECO100240	S1M10000004B08	SAU801346	S1M10000048A06	SAU800546
E1M10000227E03	ECO100975	S1M10000004B08	SAU200535	S1M10000048B06	SAU801184
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E1M10000227G03	ECO101458	S1M10000004D08	SAU800517	S1M10000048C06	SAU801669
E1M10000227G03	ECO101459	S1M10000004D08	SAU202623	S1M10000048E06	SAU801186
E1M10000227E04	ECO104148	S1M10000004F08	SAU802224	S1M10000048A07	SAU801253
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E1M10000227C05	ECO104165	S1M10000004C09	SAU802496	S1M10000048G07	SAU800520
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E1M10000227D08	ECO103911	S1M10000004D10	SAU801618	S1M10000048D08	SAU300619
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E1M10000227E11	ECO103723	S1M10000004A12	SAU801208	S1M10000048A09	SAU800547
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E1M10000227D12	ECO104144	S1M10000004E12	SAU800528	S1M10000048F09	SAU802238
E1M10000232H02	ECO103235	S1M10000004F12	SAU801900	S1M10000048H09	SAU800546



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E1M10000232H03	ECO103097	S1M10000005E01	SAU800996	S1M10000048D10	SAU802590
E1M10000232C07	ECO100170	S1M10000005B02	SAU802243	S1M10000048E10	SAU802590
E1M10000232F07	ECO103797	S1M10000005D02	SAU800519	S1M10000048G10	SAU802238
E1M10000232F07	ECO103798	S1M10000005E02	SAU802655	S1M10000048H10	SAU802240
E1M10000232G07	ECO104010	S1M10000005F02	SAU801644	S1M10000048A11	SAU802224
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E1M10000233H03	ECO103239	S1M10000005F04	SAU800362	S1M10000048D12	SAU800249
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E1M10000233A05	ECO102553	S1M10000005D05	SAU801644		



Table IC provides a cross reference between PathoSeq Gene Loci listed in Table IB and the SEQ ID NOs. of the corresponding PathoSeq polypeptides and the SEQ ID NOs. of the nucleic acids which encode them. The Gene Locus IDs provided in Table IC each comprise a nine digit alpha-numeric identifier that can be used to determine the organism from which each Gene Locus and corresponding SEQ ID NOs. were identified. Specifically, the first letter of the Gene Locus ID corresponds to the first letter of the genus name of the organism described herein from which the Gene Locus was identified and the second and third letters of the Gene Locus ID correspond to the first two letters of the species name of this organism. For example, the identifier EFA205257 describes a gene locus identified from *Enterococcus faecalis*. In those instances where the three letter identifier is the same for different organisms, the exact identity of the organism which corresponds to the Gene Locus ID can be determined by referring to the organism designation in the sequence listing for the coding nucleic acid or polypeptide SEQ ID NO. that corresponds to the particular Gene Locus ID.



TABLE IC

DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID
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6215	42399	EFA205258	18277	54461	CJU100848	30338	66522	PAE203654
6216	42400	EFA205225	18278	54462	CJU100855	30339	66523	PAE203656
6217	42401	EFA201977	18279	54463	CJU100856	30340	66524	PAE203658
6218	42402	EFA203137	18280	54464	CJU100859	30341	66525	PAE203668
6219	42403	EFA200840	18281	54465	CJU100860	30342	66526	PAE203670
6220	42404	EFA202003	18282	54466	CJU100861	30343	66527	PAE203672
6221	42405	EFA200807	18283	54467	CJU100862	30344	66528	PAE203677
6222	42406	EFA200811	18284	54468	CJU100863	30345	66529	PAE203684
6223	42407	EFA201987	18285	54469	CJU100866	30346	66530	PAE203691
6224	42408	EFA201980	18286	54470	CJU100870	30347	66531	PAE203698
6225	42409	EFA201981	18287	54471	CJU100871	30348	66532	PAE203722
6226	42410	EFA205229	18288	54472	CJU100872	30349	66533	PAE203732
6227	42411	EFA201028	18289	54473	CJU100885	30350	66534	PAE203735
6228	42412	EFA201993	18290	54474	CJU100886	30351	66535	PAE203739
6229	42413	EFA201974	18291	54475	CJU100888	30352	66536	PAE203740
6230	42414	EFA201975	18292	54476	CJU100890	30353	66537	PAE203741
6231	42415	EFA202001	18293	54477	CJU100891	30354	66538	PAE203742
6232	42416	EFA200839	18294	54478	CJU100896	30355	66539	PAE203743
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6234	42418	EFA201984	18296	54480	CJU100923	30357	66541	PAE203751
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6238	42422	EFA202536	18300	54484	CJU100944	30361	66545	PAE203758
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6245	42429	EFA200660	18307	54491	CJU100970	30368	66552	PAE203800
6246	42430	EFA200661	18308	54492	CJU100980	30369	66553	PAE203801
6247	42431	EFA202276	18309	54493	CJU100982	30370	66554	PAE203810
6248	42432	EFA201982	18310	54494	CJU100983	30371	66555	PAE203812
6249	42433	EFA202214	18311	54495	CJU100987	30372	66556	PAE203813
6250	42434	EFA202216	18312	54496	CJU100989	30373	66557	PAE203820
6251	42435	EFA200360	18313	54497	CJU100993	30374	66558	PAE203821
6252	42436	EFA200766	18314	54498	CJU100996	30375	66559	PAE203828
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6260	42444	EFA201523	18322	54506	CJU101021	30383	66567	PAE203888
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6264	42448	EFA201888	18326	54510	CJU101029	30387	66571	PAE203900
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WO 02/077183						PCT/US02/09107		
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6274	42458	EFA203904	18336	54520	CJU101072	30397	66581	PAE203984
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6278	42462	EFA200662	18340	54524	CJU101081	30401	66585	PAE204008
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6313	42497	EFA201926	18375	54559	CJU101188	30436	66620	PAE204239
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6319	42503	EFA200478	18381	54565	CJU101207	30442	66626	PAE204271
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WO 02/077183									PCT/US02/09107		
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6381	42565	EFA202221	18443	54627	CJU101518	30504	66688	PAE204593
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6426	42610	ECO101995	18488	54672	CJU101613	30549	66733	PAE204781
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6428	42612	ECO103263	18490	54674	CJU101615	30551	66735	PAE204820
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WO 02/077183									PCT/US02/09107		
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6436	42620	ECO102513	18498	54682	CPN100682	30559	66743	PAE204863			
6437	42621	ECO100366	18499	54683	CPN100816	30560	66744	PAE204868			
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6443	42627	ECO103461	18505	54689	CPN200024	30566	66750	PAE204915			
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6446	42630	ECO103059	18508	54692	CPN200033	30569	66753	PAE204925			
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6449	42633	ECO101764	18511	54695	CPN200045	30572	66756	PAE204929			
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6452	42636	ECO102842	18514	54698	CPN200048	30575	66759	PAE204941			
6453	42637	ECO104277	18515	54699	CPN200053	30576	66760	PAE204942			
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6457	42641	ECO101041	18519	54703	CPN200066	30580	66764	PAE204964			
6458	42642	ECO101086	18520	54704	CPN200071	30581	66765	PAE204965			
6459	42643	ECO103228	18521	54705	CPN200079	30582	66766	PAE204975			
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6462	42646	ECO100139	18524	54708	CPN200085	30585	66769	PAE204991			
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6465	42649	ECO102828	18527	54711	CPN200092	30588	66772	PAE205011			
6466	42650	ECO100390	18528	54712	CPN200093	30589	66773	PAE205014			
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WO 02/077183						PCT/US02/09107		
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6494	42678	ECO103231	18556	54740	CPN200129	30617	66801	PAE205178
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WO 02/077183									PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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6769	42953	ECO102158	18831	55015	CTR100183	30892	67076	PMU100726
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WO 02/077183						PCT/US02/09107		
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6823	43007	ECO103331	18885	55069	CTR200103	30946	67130	PMU100903
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WO 02/077183									PCT/US02/09107		
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6933	43117	ECO102213	18995	55179	CTR200458	31056	67240	PMU101287			
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WO 02/077183									PCT/US02/09107
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WO 02/077183						PCT/US02/09107		
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7047	43231	ECO103617	19109	55293	CTR200789	31170	67354	PMU101625
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WO 02/077183									PCT/US02/09107		
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7136	43320	ECO101613	19198	55382	EBC100300	31259	67443	PMU101917			
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7138	43322	ECO103104	19200	55384	EBC100307	31261	67445	PMU101923			
7139	43323	ECO100584	19201	55385	EBC100310	31262	67446	PMU101930			
7140	43324	ECO103557	19202	55386	EBC100321	31263	67447	PMU101940			
7141	43325	ECO104160	19203	55387	EBC100323	31264	67448	PMU101945			
7142	43326	ECO100381	19204	55388	EBC100329	31265	67449	PMU101950			
7143	43327	ECO102096	19205	55389	EBC100331	31266	67450	PMU101951			
7144	43328	ECO102741	19206	55390	EBC100332	31267	67451	PMU101955			
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WO 02/077183									PCT/US02/09107		
DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID
7146	43330	ECO101978	19208	55392	EBC100355	31269	67453	PMU101967			
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7148	43332	ECO103594	19210	55394	EBC100359	31271	67455	PMU101974			
7149	43333	ECO100706	19211	55395	EBC100362	31272	67456	PMU101977			
7150	43334	ECO104227	19212	55396	EBC100370	31273	67457	PMU101978			
7151	43335	ECO205289	19213	55397	EBC100373	31274	67458	PMU101981			
7152	43336	ECO103627	19214	55398	EBC100384	31275	67459	PMU101984			
7153	43337	ECO100785	19215	55399	EBC100388	31276	67460	PMU101985			
7154	43338	ECO100786	19216	55400	EBC100399	31277	67461	PMU101986			
7155	43339	ECO103831	19217	55401	EBC100407	31278	67462	PMU101987			
7156	43340	ECO102852	19218	55402	EBC100408	31279	67463	PMU101989			
7157	43341	ECO102051	19219	55403	EBC100415	31280	67464	PMU101990			
7158	43342	ECO100967	19220	55404	EBC100417	31281	67465	PMU101994			
7159	43343	ECO103506	19221	55405	EBC100426	31282	67466	PMU101995			
7160	43344	ECO103866	19222	55406	EBC100434	31283	67467	PMU101997			
7161	43345	ECO101221	19223	55407	EBC100441	31284	67468	PMU101998			
7162	43346	ECO100402	19224	55408	EBC100442	31285	67469	PMU102001			
7163	43347	ECO101175	19225	55409	EBC100444	31286	67470	PMU102003			
7164	43348	ECO103532	19226	55410	EBC100445	31287	67471	PMU102009			
7165	43349	ECO103533	19227	55411	EBC100447	31288	67472	PMU102010			
7166	43350	ECO100712	19228	55412	EBC100455	31289	67473	PMU102011			
7167	43351	ECO100954	19229	55413	EBC100460	31290	67474	PPU100005			
7168	43352	ECO102466	19230	55414	EBC100461	31291	67475	PPU100008			
7169	43353	ECO102467	19231	55415	EBC100465	31292	67476	PPU100025			
7170	43354	ECO100150	19232	55416	EBC100468	31293	67477	PPU100087			
7171	43355	ECO100151	19233	55417	EBC100474	31294	67478	PPU100091			
7172	43356	ECO103094	19234	55418	EBC100475	31295	67479	PPU100092			
7173	43357	ECO103734	19235	55419	EBC100477	31296	67480	PPU100111			
7174	43358	ECO100808	19236	55420	EBC100486	31297	67481	PPU100113			
7175	43359	ECO101539	19237	55421	EBC100487	31298	67482	PPU100120			
7176	43360	ECO101540	19238	55422	EBC100501	31299	67483	PPU100137			
7177	43361	ECO100096	19239	55423	EBC100509	31300	67484	PPU100159			
7178	43362	ECO103245	19240	55424	EBC100510	31301	67485	PPU100161			
7179	43363	ECO103246	19241	55425	EBC100514	31302	67486	PPU100174			
7180	43364	ECO102462	19242	55426	EBC100530	31303	67487	PPU100194			
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7182	43366	ECO103098	19244	55428	EBC100541	31305	67489	PPU100210			
7183	43367	ECO100255	19245	55429	EBC100545	31306	67490	PPU100215			
7184	43368	ECO100144	19246	55430	EBC100550	31307	67491	PPU100226			
7185	43369	ECO100145	19247	55431	EBC100562	31308	67492	PPU100241			
7186	43370	ECO103399	19248	55432	EBC100570	31309	67493	PPU100250			
7187	43371	ECO204448	19249	55433	EBC100597	31310	67494	PPU100260			
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7189	43373	ECO104218	19251	55435	EBC100616	31312	67496	PPU100354			
7190	43374	ECO104241	19252	55436	EBC100624	31313	67497	PPU100404			
7191	43375	ECO102363	19253	55437	EBC100628	31314	67498	PPU100405			
7192	43376	ECO100980	19254	55438	EBC100631	31315	67499	PPU100406			
7193	43377	ECO103453	19255	55439	EBC100632	31316	67500	PPU100420			
7194	43378	ECO103454	19256	55440	EBC100646	31317	67501	PPU100429			
7195	43379	ECO204438	19257	55441	EBC100653	31318	67502	PPU100453			
7196	43380	ECO103284	19258	55442	EBC100654	31319	67503	PPU100478			
7197	43381	ECO102066	19259	55443	EBC100655	31320	67504	PPU100484			
7198	43382	ECO102355	19260	55444	EBC100656	31321	67505	PPU100534			
7199	43383	ECO103000	19261	55445	EBC100663	31322	67506	PPU100559			
7200	43384	ECO102612	19262	55446	EBC100664	31323	67507	PPU100577			



WO 02/077183									PCT/US02/09107		
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7203	43387	ECO100572	19265	55449	EBC100683	31326	67510	PPU100606			
7204	43388	ECO102351	19266	55450	EBC100689	31327	67511	PPU100621			
7205	43389	ECO104028	19267	55451	EBC100699	31328	67512	PPU100631			
7206	43390	ECO100475	19268	55452	EBC100702	31329	67513	PPU100633			
7207	43391	ECO104233	19269	55453	EBC100703	31330	67514	PPU100635			
7208	43392	ECO101499	19270	55454	EBC100704	31331	67515	PPU100641			
7209	43393	ECO101671	19271	55455	EBC100706	31332	67516	PPU100647			
7210	43394	ECO100867	19272	55456	EBC100717	31333	67517	PPU100648			
7211	43395	KPN200073	19273	55457	EBC100728	31334	67518	PPU100759			
7212	43396	KPN201086	19274	55458	EBC100731	31335	67519	PPU100764			
7213	43397	KPN201087	19275	55459	EBC100765	31336	67520	PPU100765			
7214	43398	KPN103883	19276	55460	EBC100767	31337	67521	PPU100810			
7215	43399	KPN208757	19277	55461	EBC100769	31338	67522	PPU100841			
7216	43400	KPN203895	19278	55462	EBC100771	31339	67523	PPU100844			
7217	43401	KPN303445	19279	55463	EBC100779	31340	67524	PPU100858			
7218	43402	KPN203896	19280	55464	EBC100780	31341	67525	PPU100863			
7219	43403	KPN204465	19281	55465	EBC100789	31342	67526	PPU100866			
7220	43404	KPN204464	19282	55466	EBC100804	31343	67527	PPU100873			
7221	43405	KPN201990	19283	55467	EBC100805	31344	67528	PPU100881			
7222	43406	KPN203025	19284	55468	EBC100806	31345	67529	PPU100882			
7223	43407	KPN203487	19285	55469	EBC100807	31346	67530	PPU100885			
7224	43408	KPN203310	19286	55470	EBC100809	31347	67531	PPU100890			
7225	43409	KPN300969	19287	55471	EBC100812	31348	67532	PPU100894			
7226	43410	KPN201549	19288	55472	EBC100814	31349	67533	PPU100917			
7227	43411	KPN203973	19289	55473	EBC100818	31350	67534	PPU100927			
7228	43412	KPN108099	19290	55474	EBC100820	31351	67535	PPU100957			
7229	43413	KPN207255	19291	55475	EBC100826	31352	67536	PPU100970			
7230	43414	KPN203534	19292	55476	EBC100833	31353	67537	PPU101006			
7231	43415	KPN204596	19293	55477	EBC100834	31354	67538	PPU101007			
7232	43416	KPN203246	19294	55478	EBC100838	31355	67539	PPU101032			
7233	43417	KPN203084	19295	55479	EBC100856	31356	67540	PPU101036			
7234	43418	KPN206685	19296	55480	EBC100867	31357	67541	PPU101058			
7235	43419	KPN203146	19297	55481	EBC100870	31358	67542	PPU101059			
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7237	43421	KPN200460	19299	55483	EBC100874	31360	67544	PPU101063			
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7243	43427	PAE203039	19305	55489	EBC100906	31366	67550	PPU101093			
7244	43428	PAE203038	19306	55490	EBC100908	31367	67551	PPU101099			
7245	43429	PAE204262	19307	55491	EBC100918	31368	67552	PPU101118			
7246	43430	PAE204064	19308	55492	EBC100919	31369	67553	PPU101132			
7247	43431	PAE204269	19309	55493	EBC100920	31370	67554	PPU101135			
7248	43432	PAE204270	19310	55494	EBC100928	31371	67555	PPU101137			
7249	43433	PAE203045	19311	55495	EBC100940	31372	67556	PPU101138			
7250	43434	PAE204248	19312	55496	EBC100948	31373	67557	PPU101140			
7251	43435	PAE204249	19313	55497	EBC100951	31374	67558	PPU101143			
7252	43436	PAE205294	19314	55498	EBC100961	31375	67559	PPU101150			
7253	43437	PAE202311	19315	55499	EBC100964	31376	67560	PPU101155			
7254	43438	PAE203158	19316	55500	EBC100965	31377	67561	PPU101164			
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WO 02/077183						PCT/US02/09107		
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7258	43442	PAE203152	19320	55504	EBC100976	31381	67565	PPU101173
7259	43443	PAE203011	19321	55505	EBC100985	31382	67566	PPU101175
7260	43444	PAE202220	19322	55506	EBC100989	31383	67567	PPU101184
7261	43445	PAE200714	19323	55507	EBC101014	31384	67568	PPU101189
7262	43446	PAE105557	19324	55508	EBC101020	31385	67569	PPU101200
7263	43447	PAE109154	19325	55509	EBC101022	31386	67570	PPU101203
7264	43448	PAE203009	19326	55510	EBC101030	31387	67571	PPU101233
7265	43449	PAE204255	19327	55511	EBC101032	31388	67572	PPU101236
7266	43450	PAE204261	19328	55512	EBC101033	31389	67573	PPU101283
7267	43451	PAE202582	19329	55513	EBC101035	31390	67574	PPU101372
7268	43452	PAE200787	19330	55514	EBC101041	31391	67575	PPU101373
7269	43453	PAE201300	19331	55515	EBC101043	31392	67576	PPU101392
7270	43454	PAE200352	19332	55516	EBC101051	31393	67577	PPU101395
7271	43455	PAE200264	19333	55517	EBC101052	31394	67578	PPU101396
7272	43456	PAE201984	19334	55518	EBC101067	31395	67579	PPU101409
7273	43457	PAE203066	19335	55519	EBC101072	31396	67580	PPU101423
7274	43458	PAE203981	19336	55520	EBC101089	31397	67581	PPU101429
7275	43459	PAE203004	19337	55521	EBC101093	31398	67582	PPU101434
7276	43460	PAE203003	19338	55522	EBC101094	31399	67583	PPU101447
7277	43461	PAE204242	19339	55523	EBC101097	31400	67584	PPU101455
7278	43462	PAE204243	19340	55524	EBC101110	31401	67585	PPU101463
7279	43463	PAE204246	19341	55525	EBC101111	31402	67586	PPU101466
7280	43464	PAE204247	19342	55526	EBC101113	31403	67587	PPU101491
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7282	43466	PAE204253	19344	55528	EBC101122	31405	67589	PPU101498
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7284	43468	PAE204540	19346	55530	EBC101129	31407	67591	PPU101511
7285	43469	PAE203928	19347	55531	EBC101139	31408	67592	PPU101525
7286	43470	PAE205202	19348	55532	EBC101151	31409	67593	PPU101526
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7294	43478	PAE200377	19356	55540	EBC101191	31417	67601	PPU101602
7295	43479	PAE205204	19357	55541	EBC101192	31418	67602	PPU101660
7296	43480	PAE202126	19358	55542	EBC101194	31419	67603	PPU101672
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7301	43485	PAE200641	19363	55547	EBC101214	31424	67608	PPU101751
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7306	43490	PAE200471	19368	55552	EBC101233	31429	67613	PPU101791
7307	43491	PAE204668	19369	55553	EBC101239	31430	67614	PPU101810
7308	43492	PAE204504	19370	55554	EBC101242	31431	67615	PPU101821
7309	43493	PAE204256	19371	55555	EBC101244	31432	67616	PPU101826
7310	43494	PAE204257	19372	55556	EBC101245	31433	67617	PPU101827



WO 02/077183									PCT/US02/09107		
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7313	43497	PAE201364	19375	55559	EBC101259	31436	67620	PPU101850			
7314	43498	PAE200937	19376	55560	EBC101260	31437	67621	PPU101855			
7315	43499	PAE201397	19377	55561	EBC101263	31438	67622	PPU101878			
7316	43500	PAE201269	19378	55562	EBC101268	31439	67623	PPU101891			
7317	43501	PAE205431	19379	55563	EBC101277	31440	67624	PPU101916			
7318	43502	PAE205502	19380	55564	EBC101279	31441	67625	PPU101949			
7319	43503	PAE201492	19381	55565	EBC101280	31442	67626	PPU101950			
7320	43504	PAE203475	19382	55566	EBC101281	31443	67627	PPU101952			
7321	43505	PAE202632	19383	55567	EBC101282	31444	67628	PPU101954			
7322	43506	PAE201359	19384	55568	EBC101285	31445	67629	PPU101976			
7323	43507	PAE202724	19385	55569	EBC101287	31446	67630	PPU101981			
7324	43508	PAE204241	19386	55570	EBC101290	31447	67631	PPU101984			
7325	43509	PAE203520	19387	55571	EBC101291	31448	67632	PPU101987			
7326	43510	PAE203119	19388	55572	EBC101294	31449	67633	PPU101997			
7327	43511	PAE200320	19389	55573	EBC101295	31450	67634	PPU102000			
7328	43512	PAE200028	19390	55574	EBC101303	31451	67635	PPU102004			
7329	43513	PAE204244	19391	55575	EBC101305	31452	67636	PPU102022			
7330	43514	PAE204245	19392	55576	EBC101306	31453	67637	PPU102025			
7331	43515	PAE200881	19393	55577	EBC101308	31454	67638	PPU102030			
7332	43516	PAE204596	19394	55578	EBC101311	31455	67639	PPU102034			
7333	43517	PAE205311	19395	55579	EBC101317	31456	67640	PPU102036			
7334	43518	PAE204260	19396	55580	EBC101321	31457	67641	PPU102041			
7335	43519	PAE204078	19397	55581	EBC101322	31458	67642	PPU102045			
7336	43520	PAE200649	19398	55582	EBC101332	31459	67643	PPU102062			
7337	43521	PAE205025	19399	55583	EBC101339	31460	67644	PPU102065			
7338	43522	PAE200129	19400	55584	EBC101342	31461	67645	PPU102070			
7339	43523	PAE204510	19401	55585	EBC101345	31462	67646	PPU102082			
7340	43524	PAE201071	19402	55586	EBC101346	31463	67647	PPU102088			
7341	43525	PAE204266	19403	55587	EBC101349	31464	67648	PPU102092			
7342	43526	PAE202145	19404	55588	EBC101352	31465	67649	PPU102113			
7343	43527	PAE202492	19405	55589	EBC101361	31466	67650	PPU102117			
7344	43528	PAE204345	19406	55590	EBC101366	31467	67651	PPU102118			
7345	43529	PAE200422	19407	55591	EBC101375	31468	67652	PPU102122			
7346	43530	PAE201018	19408	55592	EBC101385	31469	67653	PPU102134			
7347	43531	PAE204021	19409	55593	EBC101386	31470	67654	PPU102151			
7348	43532	PAE204705	19410	55594	EBC101388	31471	67655	PPU102160			
7349	43533	PAE202592	19411	55595	EBC101390	31472	67656	PPU102161			
7350	43534	PAE200887	19412	55596	EBC101391	31473	67657	PPU102168			
7351	43535	PAE201334	19413	55597	EBC101397	31474	67658	PPU102169			
7352	43536	PAE203842	19414	55598	EBC101402	31475	67659	PPU102171			
7353	43537	PAE203873	19415	55599	EBC101405	31476	67660	PPU102173			
7354	43538	PAE203874	19416	55600	EBC101407	31477	67661	PPU102180			
7355	43539	PAE203477	19417	55601	EBC101408	31478	67662	PPU102181			
7356	43540	PAE203641	19418	55602	EBC101415	31479	67663	PPU102183			
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WO 02/077183						PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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## WO 02/077183

## PCT/US02/09107

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WO 02/077183									PCT/US02/09107		
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## WO 02/077183

## PCT/US02/09107

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## WO 02/077183

## PCT/US02/09107

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7796	43980	SAU800541	19858	56042	EBC103299	31919	68103	PPU108584
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7799	43983	SAU800191	19861	56045	EBC103305	31922	68106	PPU108615
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7803	43987	SAU800720	19865	56049	EBC103336	31926	68110	PPU108658
7804	43988	SAU802254	19866	56050	EBC103337	31927	68111	PPU108666
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WO 02/077183									PCT/US02/09107		
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7814	43998	SAU801234	19876	56060	EBC103390	31937	68121	PPU108806			
7815	43999	SAU800179	19877	56061	EBC103391	31938	68122	PPU108816			
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7854	44038	SAU801192	19916	56100	EBC103573	31977	68161	PPU109350			
7855	44039	SAU800701	19917	56101	EBC103585	31978	68162	PPU109363			
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WO 02/077183									PCT/US02/09107		
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7867	44051	SAU801681	19929	56113	EBC103637	31990	68174	PPU109611			
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7880	44064	SAU801237	19942	56126	EBC103653	32003	68187	PPU109748			
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7887	44071	SAU802239	19949	56133	EBC103660	32010	68194	PPU109819			
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7889	44073	SAU801557	19951	56135	EBC103663	32012	68196	PPU109849			
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7908	44092	SAU801617	19970	56154	EBC103756	32031	68215	PPU110058			
7909	44093	SAU802082	19971	56155	EBC103757	32032	68216	PPU110079			
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WO 02/077183									PCT/US02/09107		
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7921	44105	SAU802389	19983	56167	EBC103818	32044	68228	PPU110278			
7922	44106	SAU802390	19984	56168	EBC103824	32045	68229	PPU110293			
7923	44107	SAU302890	19985	56169	EBC103829	32046	68230	PPU110333			
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7944	44128	SAU801251	20006	56190	EBC103870	32067	68251	PPU110641			
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WO 02/077183									PCT/US02/09107		
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7977	44161	SAU801646	20039	56223	EBC103997	32100	68284	PPU111301			
7978	44162	SAU800680	20040	56224	EBC103998	32101	68285	PPU111305			
7979	44163	SAU800782	20041	56225	EBC104003	32102	68286	PPU111319			
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7997	44181	SAU800089	20059	56243	EBC104085	32120	68304	PPU111521			
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## WO 02/077183

## PCT/US02/09107

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WO 02/077183			PCT/US02/09107					
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WO 02/077183									PCT/US02/09107		
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## WO 02/077183

## PCT/US02/09107

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## WO 02/077183

## PCT/US02/09107

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## WO 02/077183

## PCT/US02/09107

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8458	44642	ABA100571	20520	56704	ECO103107	32581	68765	PRT102408
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## WO 02/077183

## PCT/US02/09107

DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID
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8473	44657	ABA100616	20535	56719	ECO103282	32596	68780	PRT102456
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8513	44697	ABA100815	20575	56759	ECO103688	32636	68820	PRT102688
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8519	44703	ABA100860	20581	56765	ECO103757	32642	68826	PRT102712
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WO 02/077183									PCT/US02/09107		
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8525	44709	ABA100914	20587	56771	ECO103822	32648	68832	PRT102791			
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## WO 02/077183

## PCT/US02/09107

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8579	44763	ABA101290	20641	56825	ECO201402	32702	68886	PRT103159
8580	44764	ABA101297	20642	56826	ECO201939	32703	68887	PRT103160
8581	44765	ABA101300	20643	56827	ECO202018	32704	68888	PRT103179
8582	44766	ABA101312	20644	56828	ECO202059	32705	68889	PRT103182
8583	44767	ABA101313	20645	56829	ECO202247	32706	68890	PRT103194
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8637	44821	ABA101702	20699	56883	EFA200190	32760	68944	PRT103897
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8673	44857	ABA102167	20735	56919	EFA200364	32796	68980	PRT104399
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WO 02/077183									PCT/US02/09107		
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8691	44875	ABA102360	20753	56937	EFA200404	32814	68998	PRT104544			
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8695	44879	ABA102434	20757	56941	EFA200426	32818	69002	PRT104596			
8696	44880	ABA102453	20758	56942	EFA200427	32819	69003	PRT104598			
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8698	44882	ABA102495	20760	56944	EFA200432	32821	69005	PRT104614			
8699	44883	ABA102496	20761	56945	EFA200434	32822	69006	PRT104636			
8700	44884	ABA102498	20762	56946	EFA200438	32823	69007	PRT104641			
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8703	44887	ABA102503	20765	56949	EFA200462	32826	69010	PRT104687			
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8716	44900	ABA102759	20778	56962	EFA200549	32839	69023	PRT104740			
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8738	44922	ABA103075	20800	56984	EFA200676	32861	69045	PRT104897			
8739	44923	ABA103108	20801	56985	EFA200678	32862	69046	PRT104898			
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## WO 02/077183

## PCT/US02/09107

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8743	44927	ABA103234	20805	56989	EFA200693	32866	69050	PRT104910
8744	44928	ABA103247	20806	56990	EFA200701	32867	69051	PRT104914
8745	44929	ABA103339	20807	56991	EFA200703	32868	69052	PRT104931
8746	44930	ABA103347	20808	56992	EFA200704	32869	69053	PRT104944
8747	44931	ABA103427	20809	56993	EFA200707	32870	69054	PRT104948
8748	44932	ABA103514	20810	56994	EFA200710	32871	69055	PRT104969
8749	44933	ABA103520	20811	56995	EFA200711	32872	69056	PRT104973
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8759	44943	ABA103622	20821	57005	EFA200738	32882	69066	PRT105082
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8768	44952	ABA103671	20830	57014	EFA200772	32891	69075	PRT105129
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8791	44975	ABA103851	20853	57037	EFA200866	32914	69098	PRT105266
8792	44976	ABA103852	20854	57038	EFA200867	32915	69099	PRT105273
8793	44977	ABA103857	20855	57039	EFA200869	32916	69100	PRT105275
8794	44978	ABA103859	20856	57040	EFA200870	32917	69101	PRT105280
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## WO 02/077183

## PCT/US02/09107

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8799	44983	ABA103932	20861	57045	EFA200895	32922	69106	PRT105312
8800	44984	ABA103937	20862	57046	EFA200896	32923	69107	PRT105337
8801	44985	ABA103947	20863	57047	EFA200904	32924	69108	PRT105340
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8803	44987	ABA103956	20865	57049	EFA200943	32926	69110	PRT105365
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8813	44997	ABA104052	20875	57059	EFA201006	32936	69120	PRT105481
8814	44998	ABA104064	20876	57060	EFA201010	32937	69121	PRT105483
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## WO 02/077183

## PCT/US02/09107

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8856	45040	ABA104393	20918	57102	EFA201241	32979	69163	PRT105730
8857	45041	ABA104395	20919	57103	EFA201248	32980	69164	PRT105732
8858	45042	ABA104411	20920	57104	EFA201252	32981	69165	PRT105741
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8893	45077	ABA104697	20955	57139	EFA201398	33016	69200	PRT106011
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## WO 02/077183

## PCT/US02/09107

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8908	45092	ABA104792	20970	57154	EFA201477	33031	69215	PRT106136
8909	45093	ABA104797	20971	57155	EFA201494	33032	69216	PRT106147
8910	45094	ABA104823	20972	57156	EFA201505	33033	69217	PRT106150
8911	45095	ABA104828	20973	57157	EFA201508	33034	69218	PRT106151
8912	45096	ABA104830	20974	57158	EFA201509	33035	69219	PRT106157
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8915	45099	ABA104881	20977	57161	EFA201529	33038	69222	PRT106168
8916	45100	ABA104905	20978	57162	EFA201530	33039	69223	PRT106179
8917	45101	ABA104908	20979	57163	EFA201536	33040	69224	PRT106182
8918	45102	ABA104912	20980	57164	EFA201537	33041	69225	PRT106200
8919	45103	ABA104913	20981	57165	EFA201542	33042	69226	PSY100026
8920	45104	ABA104917	20982	57166	EFA201544	33043	69227	PSY100041
8921	45105	ABA104918	20983	57167	EFA201552	33044	69228	PSY100059
8922	45106	ABA104921	20984	57168	EFA201559	33045	69229	PSY100067
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8924	45108	ABA104944	20986	57170	EFA201564	33047	69231	PSY100089
8925	45109	ABA104945	20987	57171	EFA201570	33048	69232	PSY100091
8926	45110	ABA104957	20988	57172	EFA201573	33049	69233	PSY100104
8927	45111	ABA104968	20989	57173	EFA201581	33050	69234	PSY100105
8928	45112	ABA104991	20990	57174	EFA201584	33051	69235	PSY100106
8929	45113	ABA104996	20991	57175	EFA201586	33052	69236	PSY100129
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8931	45115	ABA105014	20993	57177	EFA201596	33054	69238	PSY100142
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8933	45117	ABA105021	20995	57179	EFA201607	33056	69240	PSY100200
8934	45118	ABA105025	20996	57180	EFA201608	33057	69241	PSY100209
8935	45119	ABA105027	20997	57181	EFA201620	33058	69242	PSY100210
8936	45120	ABA105031	20998	57182	EFA201622	33059	69243	PSY100232
8937	45121	ABA105033	20999	57183	EFA201623	33060	69244	PSY100233
8938	45122	ABA105042	21000	57184	EFA201624	33061	69245	PSY100242
8939	45123	ABA105043	21001	57185	EFA201626	33062	69246	PSY100243
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8941	45125	ABA105050	21003	57187	EFA201632	33064	69248	PSY100252
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8943	45127	ABA105060	21005	57189	EFA201653	33066	69250	PSY100281
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8945	45129	ABA105069	21007	57191	EFA201657	33068	69252	PSY100295
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8947	45131	ABA105082	21009	57193	EFA201665	33070	69254	PSY100319
8948	45132	ABA105088	21010	57194	EFA201668	33071	69255	PSY100343
8949	45133	ABA105090	21011	57195	EFA201706	33072	69256	PSY100366
8950	45134	ABA105109	21012	57196	EFA201707	33073	69257	PSY100368
8951	45135	ABA105111	21013	57197	EFA201709	33074	69258	PSY100373
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8953	45137	ABA105133	21015	57199	EFA201713	33076	69260	PSY100434
8954	45138	ABA105138	21016	57200	EFA201715	33077	69261	PSY100460
8955	45139	ABA105144	21017	57201	EFA201718	33078	69262	PSY100479
8956	45140	ABA105148	21018	57202	EFA201725	33079	69263	PSY100530
8957	45141	ABA105151	21019	57203	EFA201729	33080	69264	PSY100555
8958	45142	ABA105152	21020	57204	EFA201739	33081	69265	PSY100559
8959	45143	ABA105158	21021	57205	EFA201740	33082	69266	PSY100579
8960	45144	ABA105163	21022	57206	EFA201741	33083	69267	PSY100581



WO 02/077183									PCT/US02/09107		
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8963	45147	ABA105171	21025	57209	EFA201785	33086	69270	PSY100665			
8964	45148	ABA105177	21026	57210	EFA201797	33087	69271	PSY100686			
8965	45149	ABA105182	21027	57211	EFA201799	33088	69272	PSY100713			
8966	45150	ABA105185	21028	57212	EFA201802	33089	69273	PSY100717			
8967	45151	ABA105190	21029	57213	EFA201804	33090	69274	PSY100720			
8968	45152	ABA105195	21030	57214	EFA201808	33091	69275	PSY100727			
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8970	45154	ABA105208	21032	57216	EFA201812	33093	69277	PSY100759			
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8972	45156	ABA105245	21034	57218	EFA201830	33095	69279	PSY100814			
8973	45157	ABA105254	21035	57219	EFA201835	33096	69280	PSY100822			
8974	45158	ABA105255	21036	57220	EFA201838	33097	69281	PSY100824			
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8976	45160	ABA105269	21038	57222	EFA201843	33099	69283	PSY100833			
8977	45161	ABA105278	21039	57223	EFA201844	33100	69284	PSY100837			
8978	45162	ABA105298	21040	57224	EFA201845	33101	69285	PSY100848			
8979	45163	ABA105304	21041	57225	EFA201849	33102	69286	PSY100871			
8980	45164	ABA105312	21042	57226	EFA201855	33103	69287	PSY100875			
8981	45165	ABA105321	21043	57227	EFA201862	33104	69288	PSY100879			
8982	45166	ABA105327	21044	57228	EFA201864	33105	69289	PSY100919			
8983	45167	ABA105335	21045	57229	EFA201865	33106	69290	PSY100923			
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8985	45169	ABA105367	21047	57231	EFA201885	33108	69292	PSY100945			
8986	45170	ABA105381	21048	57232	EFA201887	33109	69293	PSY100953			
8987	45171	ABA105409	21049	57233	EFA201890	33110	69294	PSY100956			
8988	45172	ABA105410	21050	57234	EFA201894	33111	69295	PSY100971			
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8995	45179	ABA105471	21057	57241	EFA201930	33118	69302	PSY101029			
8996	45180	ABA105476	21058	57242	EFA201931	33119	69303	PSY101032			
8997	45181	ABA105477	21059	57243	EFA201933	33120	69304	PSY101033			
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8999	45183	ABA105498	21061	57245	EFA201939	33122	69306	PSY101038			
9000	45184	ABA105502	21062	57246	EFA201956	33123	69307	PSY101040			
9001	45185	ABA105508	21063	57247	EFA201957	33124	69308	PSY101043			
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9003	45187	ABA105518	21065	57249	EFA201972	33126	69310	PSY101054			
9004	45188	ABA105527	21066	57250	EFA201992	33127	69311	PSY101062			
9005	45189	ABA105528	21067	57251	EFA201995	33128	69312	PSY101063			
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9010	45194	ABA105548	21072	57256	EFA202024	33133	69317	PSY101086			
9011	45195	ABA105551	21073	57257	EFA202025	33134	69318	PSY101101			
9012	45196	ABA105566	21074	57258	EFA202030	33135	69319	PSY101120			
9013	45197	ABA105571	21075	57259	EFA202033	33136	69320	PSY101139			
9014	45198	ABA105572	21076	57260	EFA202035	33137	69321	PSY101154			
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## WO 02/077183

## PCT/US02/09107

DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID
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9018	45202	ABA105590	21080	57264	EFA202056	33141	69325	PSY101200
9019	45203	ABA105593	21081	57265	EFA202070	33142	69326	PSY101204
9020	45204	ABA105599	21082	57266	EFA202071	33143	69327	PSY101205
9021	45205	ABA105612	21083	57267	EFA202072	33144	69328	PSY101212
9022	45206	ABA105617	21084	57268	EFA202073	33145	69329	PSY101215
9023	45207	ABA105622	21085	57269	EFA202078	33146	69330	PSY101221
9024	45208	ABA105627	21086	57270	EFA202080	33147	69331	PSY101223
9025	45209	ABA105636	21087	57271	EFA202089	33148	69332	PSY101225
9026	45210	ABA105638	21088	57272	EFA202092	33149	69333	PSY101227
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9028	45212	ABA105679	21090	57274	EFA202098	33151	69335	PSY101243
9029	45213	ABA105707	21091	57275	EFA202113	33152	69336	PSY101245
9030	45214	ABA105711	21092	57276	EFA202114	33153	69337	PSY101251
9031	45215	ABA105713	21093	57277	EFA202119	33154	69338	PSY101257
9032	45216	ABA105729	21094	57278	EFA202131	33155	69339	PSY101259
9033	45217	ABA105732	21095	57279	EFA202140	33156	69340	PSY101270
9034	45218	ABA105739	21096	57280	EFA202143	33157	69341	PSY101277
9035	45219	ABA105742	21097	57281	EFA202145	33158	69342	PSY101285
9036	45220	ABA105744	21098	57282	EFA202154	33159	69343	PSY101287
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9038	45222	ABA105759	21100	57284	EFA202162	33161	69345	PSY101307
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9040	45224	ABA105768	21102	57286	EFA202184	33163	69347	PSY101312
9041	45225	ABA105771	21103	57287	EFA202186	33164	69348	PSY101314
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9043	45227	ABA105779	21105	57289	EFA202196	33166	69350	PSY101323
9044	45228	ABA105798	21106	57290	EFA202198	33167	69351	PSY101331
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9046	45230	ABA105800	21108	57292	EFA202205	33169	69353	PSY101343
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9048	45232	ABA105807	21110	57294	EFA202219	33171	69355	PSY101350
9049	45233	ABA105815	21111	57295	EFA202220	33172	69356	PSY101352
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9056	45240	ABA105859	21118	57302	EFA202268	33179	69363	PSY101474
9057	45241	ABA105864	21119	57303	EFA202270	33180	69364	PSY101541
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9061	45245	ABA105924	21123	57307	EFA202292	33184	69368	PSY101603
9062	45246	ABA105929	21124	57308	EFA202294	33185	69369	PSY101607
9063	45247	ABA105938	21125	57309	EFA202329	33186	69370	PSY101610
9064	45248	ABA105939	21126	57310	EFA202330	33187	69371	PSY101642
9065	45249	ABA105948	21127	57311	EFA202331	33188	69372	PSY101651
9066	45250	ABA105949	21128	57312	EFA202336	33189	69373	PSY101669
9067	45251	ABA105983	21129	57313	EFA202339	33190	69374	PSY101670
9068	45252	ABA105993	21130	57314	EFA202342	33191	69375	PSY101673
9069	45253	ABA105994	21131	57315	EFA202344	33192	69376	PSY101677
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WO 02/077183									PCT/US02/09107		
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9074	45258	ABA106040	21136	57320	EFA202357	33197	69381	PSY101698			
9075	45259	ABA106047	21137	57321	EFA202358	33198	69382	PSY101701			
9076	45260	ABA106057	21138	57322	EFA202359	33199	69383	PSY101711			
9077	45261	ABA106058	21139	57323	EFA202361	33200	69384	PSY101722			
9078	45262	ABA106059	21140	57324	EFA202362	33201	69385	PSY101745			
9079	45263	ABA106072	21141	57325	EFA202365	33202	69386	PSY101748			
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9081	45265	ABA106085	21143	57327	EFA202370	33204	69388	PSY101765			
9082	45266	ABA106107	21144	57328	EFA202372	33205	69389	PSY101769			
9083	45267	ABA106110	21145	57329	EFA202379	33206	69390	PSY101770			
9084	45268	ABA106113	21146	57330	EFA202385	33207	69391	PSY101773			
9085	45269	ABA106133	21147	57331	EFA202387	33208	69392	PSY101776			
9086	45270	ABA106138	21148	57332	EFA202388	33209	69393	PSY101789			
9087	45271	ABA106144	21149	57333	EFA202399	33210	69394	PSY101795			
9088	45272	ABA106150	21150	57334	EFA202404	33211	69395	PSY101807			
9089	45273	ABA106151	21151	57335	EFA202405	33212	69396	PSY101812			
9090	45274	ABA106158	21152	57336	EFA202409	33213	69397	PSY101826			
9091	45275	BAN100006	21153	57337	EFA202411	33214	69398	PSY101839			
9092	45276	BAN100015	21154	57338	EFA202413	33215	69399	PSY101861			
9093	45277	BAN100016	21155	57339	EFA202418	33216	69400	PSY101885			
9094	45278	BAN100022	21156	57340	EFA202419	33217	69401	PSY101887			
9095	45279	BAN100029	21157	57341	EFA202421	33218	69402	PSY101911			
9096	45280	BAN100051	21158	57342	EFA202423	33219	69403	PSY101953			
9097	45281	BAN100062	21159	57343	EFA202424	33220	69404	PSY101958			
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9099	45283	BAN100067	21161	57345	EFA202431	33222	69406	PSY101969			
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9103	45287	BAN100124	21165	57349	EFA202445	33226	69410	PSY102004			
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9106	45290	BAN100158	21168	57352	EFA202449	33229	69413	PSY102073			
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9109	45293	BAN100164	21171	57355	EFA202465	33232	69416	PSY102097			
9110	45294	BAN100167	21172	57356	EFA202511	33233	69417	PSY102116			
9111	45295	BAN100173	21173	57357	EFA202579	33234	69418	PSY102126			
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9116	45300	BAN100195	21178	57362	EFA202758	33239	69423	PSY102148			
9117	45301	BAN100196	21179	57363	EFA202786	33240	69424	PSY102150			
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9120	45304	BAN100216	21182	57366	EFA202940	33243	69427	PSY102166			
9121	45305	BAN100218	21183	57367	EFA203027	33244	69428	PSY102170			
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9123	45307	BAN100224	21185	57369	EFA203072	33246	69430	PSY102181			
9124	45308	BAN100228	21186	57370	EFA203085	33247	69431	PSY102192			
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## WO 02/077183

## PCT/US02/09107

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9127	45311	BAN100264	21189	57373	EFA203138	33250	69434	PSY102201
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9129	45313	BAN100279	21191	57375	EFA203174	33252	69436	PSY102222
9130	45314	BAN100298	21192	57376	EFA203222	33253	69437	PSY102225
9131	45315	BAN100304	21193	57377	EFA203228	33254	69438	PSY102229
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## WO 02/077183

## PCT/US02/09107

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WO 02/077183									PCT/US02/09107		
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9391	45575	BAN102313	21453	57637	EFM200481	33514	69698	PSY103818
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9399	45583	BAN102387	21461	57645	EFM200514	33522	69706	PSY103839
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WO 02/077183									PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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## WO 02/077183

## PCT/US02/09107

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## WO 02/077183

## PCT/US02/09107

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WO 02/077183									PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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10451	46635	BAN110775	22513	58697	HPY100369	34574	70758	SEP201006			
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WO 02/077183									PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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WO 02/077183						PCT/US02/09107		
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10615	46799	BAN112122	22677	58861	HPY101022	34738	70922	SEP201529
10616	46800	BAN112131	22678	58862	HPY101023	34739	70923	SEP201530
10617	46801	BAN112134	22679	58863	HPY101028	34740	70924	SEP201531
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10620	46804	BAN112147	22682	58866	HPY101035	34743	70927	SEP201534
10621	46805	BAN112148	22683	58867	HPY101041	34744	70928	SEP201537
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10623	46807	BAN112161	22685	58869	HPY101046	34746	70930	SEP201540
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10630	46814	BAN112207	22692	58876	HPY101071	34753	70937	SEP201551
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WO 02/077183									PCT/US02/09107		
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10670	46854	BAN112513	22732	58916	HPY101195	34793	70977	SEP201630			
10671	46855	BAN112515	22733	58917	HPY101196	34794	70978	SEP201634			
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WO 02/077183									PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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10906	47090	BBU100322	22968	59152	KPN205610	35029	71213	SEP202229			
10907	47091	BBU100325	22969	59153	KPN206188	35030	71214	SEP202230			
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10916	47100	BBU100344	22978	59162	KPN207078	35039	71223	SEP202410			
10917	47101	BBU100346	22979	59163	KPN207142	35040	71224	SEP202417			
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10923	47107	BBU100369	22985	59169	KPN300005	35046	71230	SEP202550			
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10925	47109	BBU100371	22987	59171	KPN300029	35048	71232	SEP202577			
10926	47110	BBU100374	22988	59172	KPN300031	35049	71233	SEP202582			
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10928	47112	BBU100379	22990	59174	KPN300043	35051	71235	SEP202646			
10929	47113	BBU100385	22991	59175	KPN300045	35052	71236	SEP202650			
10930	47114	BBU100386	22992	59176	KPN300047	35053	71237	SEP203226			
10931	47115	BBU100387	22993	59177	KPN300048	35054	71238	SEP203256			
10932	47116	BBU100388	22994	59178	KPN300051	35055	71239	SEP203376			
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10937	47121	BBU100393	22999	59183	KPN300091	35060	71244	SEP203908			
10938	47122	BBU100395	23000	59184	KPN300102	35061	71245	SEP204035			
10939	47123	BBU100401	23001	59185	KPN300107	35062	71246	SEP204150			
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WO 02/077183									PCT/US02/09107		
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10943	47127	BBU100416	23005	59189	KPN300132	35066	71250	SEP204230			
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10946	47130	BBU100430	23008	59192	KPN300143	35069	71253	SHA100009			
10947	47131	BBU100434	23009	59193	KPN300147	35070	71254	SHA100019			
10948	47132	BBU100435	23010	59194	KPN300148	35071	71255	SHA100023			
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10950	47134	BBU100437	23012	59196	KPN300172	35073	71257	SHA100025			
10951	47135	BBU100439	23013	59197	KPN300173	35074	71258	SHA100027			
10952	47136	BBU100440	23014	59198	KPN300176	35075	71259	SHA100035			
10953	47137	BBU100441	23015	59199	KPN300177	35076	71260	SHA100036			
10954	47138	BBU100444	23016	59200	KPN300181	35077	71261	SHA100040			
10955	47139	BBU100445	23017	59201	KPN300184	35078	71262	SHA100041			
10956	47140	BBU100446	23018	59202	KPN300196	35079	71263	SHA100042			
10957	47141	BBU100452	23019	59203	KPN300200	35080	71264	SHA100053			
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10959	47143	BBU100460	23021	59205	KPN300203	35082	71266	SHA100055			
10960	47144	BBU100471	23022	59206	KPN300210	35083	71267	SHA100056			
10961	47145	BBU100475	23023	59207	KPN300213	35084	71268	SHA100057			
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10966	47150	BBU100480	23028	59212	KPN300233	35089	71273	SHA100076			
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10969	47153	BBU100483	23031	59215	KPN300246	35092	71276	SHA100083			
10970	47154	BBU100484	23032	59216	KPN300252	35093	71277	SHA100085			
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10976	47160	BBU100490	23038	59222	KPN300274	35099	71283	SHA100105			
10977	47161	BBU100491	23039	59223	KPN300275	35100	71284	SHA100107			
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10980	47164	BBU100494	23042	59226	KPN300279	35103	71287	SHA100112			
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10982	47166	BBU100496	23044	59228	KPN300285	35105	71289	SHA100117			
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10987	47171	BBU100501	23049	59233	KPN300307	35110	71294	SHA100136			
10988	47172	BBU100502	23050	59234	KPN300310	35111	71295	SHA100138			
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10992	47176	BBU100512	23054	59238	KPN300323	35115	71299	SHA100143			
10993	47177	BBU100513	23055	59239	KPN300325	35116	71300	SHA100146			
10994	47178	BBU100517	23056	59240	KPN300326	35117	71301	SHA100148			
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WO 02/077183						PCT/US02/09107		
DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID
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10998	47182	BBU100541	23060	59244	KPN300345	35121	71305	SHA100169
10999	47183	BBU100543	23061	59245	KPN300355	35122	71306	SHA100170
11000	47184	BBU100545	23062	59246	KPN300357	35123	71307	SHA100171
11001	47185	BBU100547	23063	59247	KPN300374	35124	71308	SHA100172
11002	47186	BBU100551	23064	59248	KPN300375	35125	71309	SHA100177
11003	47187	BBU100556	23065	59249	KPN300377	35126	71310	SHA100178
11004	47188	BBU100557	23066	59250	KPN300384	35127	71311	SHA100179
11005	47189	BBU100559	23067	59251	KPN300389	35128	71312	SHA100180
11006	47190	BBU100560	23068	59252	KPN300399	35129	71313	SHA100193
11007	47191	BBU100564	23069	59253	KPN300407	35130	71314	SHA100217
11008	47192	BBU100569	23070	59254	KPN300416	35131	71315	SHA100218
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11010	47194	BBU100574	23072	59256	KPN300422	35133	71317	SHA100227
11011	47195	BBU100578	23073	59257	KPN300423	35134	71318	SHA100232
11012	47196	BBU100584	23074	59258	KPN300432	35135	71319	SHA100233
11013	47197	BBU100585	23075	59259	KPN300433	35136	71320	SHA100235
11014	47198	BBU100586	23076	59260	KPN300435	35137	71321	SHA100236
11015	47199	BBU100587	23077	59261	KPN300439	35138	71322	SHA100242
11016	47200	BBU100588	23078	59262	KPN300446	35139	71323	SHA100251
11017	47201	BBU100589	23079	59263	KPN300448	35140	71324	SHA100255
11018	47202	BBU100593	23080	59264	KPN300453	35141	71325	SHA100260
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11022	47206	BBU100606	23084	59268	KPN300467	35145	71329	SHA100279
11023	47207	BBU100611	23085	59269	KPN300479	35146	71330	SHA100281
11024	47208	BBU100612	23086	59270	KPN300480	35147	71331	SHA100288
11025	47209	BBU100614	23087	59271	KPN300484	35148	71332	SHA100292
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11034	47218	BBU100632	23096	59280	KPN300514	35157	71341	SHA100327
11035	47219	BBU100634	23097	59281	KPN300516	35158	71342	SHA100333
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11037	47221	BBU100638	23099	59283	KPN300522	35160	71344	SHA100337
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11039	47223	BBU100644	23101	59285	KPN300527	35162	71346	SHA100341
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11047	47231	BBU100681	23109	59293	KPN300548	35170	71354	SHA100370
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11057	47241	BBU100697	23119	59303	KPN300593	35180	71364	SHA100406
11058	47242	BBU100698	23120	59304	KPN300595	35181	71365	SHA100407
11059	47243	BBU100703	23121	59305	KPN300596	35182	71366	SHA100412
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11063	47247	BBU100714	23125	59309	KPN300615	35186	71370	SHA100419
11064	47248	BBU100719	23126	59310	KPN300616	35187	71371	SHA100424
11065	47249	BBU100720	23127	59311	KPN300622	35188	71372	SHA100433
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11067	47251	BBU100726	23129	59313	KPN300636	35190	71374	SHA100437
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11069	47253	BBU100731	23131	59315	KPN300639	35192	71376	SHA100442
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11072	47256	BBU100741	23134	59318	KPN300649	35195	71379	SHA100448
11073	47257	BBU100753	23135	59319	KPN300650	35196	71380	SHA100451
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11079	47263	BBU100779	23141	59325	KPN300696	35202	71386	SHA100475
11080	47264	BBU100780	23142	59326	KPN300697	35203	71387	SHA100476
11081	47265	BBU100785	23143	59327	KPN300698	35204	71388	SHA100482
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11083	47267	BBU100788	23145	59329	KPN300700	35206	71390	SHA100490
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11086	47270	BBU100792	23148	59332	KPN300703	35209	71393	SHA100498
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11091	47275	BBU100802	23153	59337	KPN300745	35214	71398	SHA100503
11092	47276	BBU100803	23154	59338	KPN300756	35215	71399	SHA100506
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11095	47279	BBU100809	23157	59341	KPN300770	35218	71402	SHA100516
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11099	47283	BBU100827	23161	59345	KPN300790	35222	71406	SHA100533
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11102	47286	BBU100832	23164	59348	KPN300812	35225	71409	SHA100548
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WO 02/077183									PCT/US02/09107		
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11108	47292	BCE100035	23170	59354	KPN300832	35231	71415	SHA100569			
11109	47293	BCE100052	23171	59355	KPN300847	35232	71416	SHA100570			
11110	47294	BCE100058	23172	59356	KPN300864	35233	71417	SHA100581			
11111	47295	BCE100085	23173	59357	KPN300867	35234	71418	SHA100585			
11112	47296	BCE100092	23174	59358	KPN300868	35235	71419	SHA100587			
11113	47297	BCE100121	23175	59359	KPN300869	35236	71420	SHA100588			
11114	47298	BCE100122	23176	59360	KPN300870	35237	71421	SHA100589			
11115	47299	BCE100150	23177	59361	KPN300871	35238	71422	SHA100594			
11116	47300	BCE100189	23178	59362	KPN300872	35239	71423	SHA100595			
11117	47301	BCE100228	23179	59363	KPN300875	35240	71424	SHA100600			
11118	47302	BCE100234	23180	59364	KPN300876	35241	71425	SHA100601			
11119	47303	BCE100247	23181	59365	KPN300879	35242	71426	SHA100602			
11120	47304	BCE100249	23182	59366	KPN300882	35243	71427	SHA100608			
11121	47305	BCE100250	23183	59367	KPN300883	35244	71428	SHA100609			
11122	47306	BCE100277	23184	59368	KPN300884	35245	71429	SHA100620			
11123	47307	BCE100299	23185	59369	KPN300885	35246	71430	SHA100631			
11124	47308	BCE100301	23186	59370	KPN300897	35247	71431	SHA100633			
11125	47309	BCE100302	23187	59371	KPN300900	35248	71432	SHA100637			
11126	47310	BCE100315	23188	59372	KPN300906	35249	71433	SHA100638			
11127	47311	BCE100353	23189	59373	KPN300907	35250	71434	SHA100639			
11128	47312	BCE100403	23190	59374	KPN300918	35251	71435	SHA100640			
11129	47313	BCE100404	23191	59375	KPN300926	35252	71436	SHA100641			
11130	47314	BCE100457	23192	59376	KPN300929	35253	71437	SHA100644			
11131	47315	BCE100458	23193	59377	KPN300934	35254	71438	SHA100647			
11132	47316	BCE100461	23194	59378	KPN300959	35255	71439	SHA100648			
11133	47317	BCE100467	23195	59379	KPN300966	35256	71440	SHA100649			
11134	47318	BCE100474	23196	59380	KPN300967	35257	71441	SHA100651			
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WO 02/077183									PCT/US02/09107		
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## WO 02/077183

## PCT/US02/09107

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11234	47418	BCE101906	23296	59480	KPN301394	35357	71541	SHA100965
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11246	47430	BCE102110	23308	59492	KPN301429	35369	71553	SHA100990
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WO 02/077183									PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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11355	47539	BCE103921	23417	59601	KPN301908	35478	71662	SHA101361			
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11370	47554	BCE104123	23432	59616	KPN301965	35493	71677	SHA101400			
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11374	47558	BCE104176	23436	59620	KPN301976	35497	71681	SHA101407			
11375	47559	BCE104233	23437	59621	KPN301980	35498	71682	SHA101408			
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11379	47563	BCE104286	23441	59625	KPN301998	35502	71686	SHA101413			
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WO 02/077183									PCT/US02/09107		
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11384	47568	BCE104345	23446	59630	KPN302017	35507	71691	SHA101433			
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11404	47588	BCE104738	23466	59650	KPN302095	35527	71711	SHA101510			
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11425	47609	BCE105068	23487	59671	KPN302203	35548	71732	SHA101579			
11426	47610	BCE105100	23488	59672	KPN302207	35549	71733	SHA101580			
11427	47611	BCE105183	23489	59673	KPN302210	35550	71734	SHA101581			
11428	47612	BCE105218	23490	59674	KPN302213	35551	71735	SHA101582			
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WO 02/077183									PCT/US02/09107		
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11438	47622	BCE105376	23500	59684	KPN302246	35561	71745	SHA101602			
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11465	47649	BCE105719	23527	59711	KPN302405	35588	71772	SHA101681			
11466	47650	BCE105745	23528	59712	KPN302422	35589	71773	SHA101682			
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WO 02/077183						PCT/US02/09107		
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11493	47677	BCE106172	23555	59739	KPN302551	35616	71800	SHA101766
11494	47678	BCE106179	23556	59740	KPN302556	35617	71801	SHA101771
11495	47679	BCE106184	23557	59741	KPN302561	35618	71802	SHA101775
11496	47680	BCE106187	23558	59742	KPN302568	35619	71803	SHA101777
11497	47681	BCE106205	23559	59743	KPN302573	35620	71804	SHA101788
11498	47682	BCE106238	23560	59744	KPN302575	35621	71805	SHA101790
11499	47683	BCE106244	23561	59745	KPN302576	35622	71806	SHA101796
11500	47684	BCE106246	23562	59746	KPN302583	35623	71807	SHA101810
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11502	47686	BCE106262	23564	59748	KPN302588	35625	71809	SHA101827
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11504	47688	BCE106333	23566	59750	KPN302592	35627	71811	SHA101835
11505	47689	BCE106339	23567	59751	KPN302593	35628	71812	SHA101837
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11510	47694	BCE106362	23572	59756	KPN302605	35633	71817	SHA101855
11511	47695	BCE106431	23573	59757	KPN302607	35634	71818	SHA101864
11512	47696	BCE106437	23574	59758	KPN302611	35635	71819	SHA101869
11513	47697	BCE106451	23575	59759	KPN302620	35636	71820	SHA101870
11514	47698	BCE106489	23576	59760	KPN302625	35637	71821	SHA101871
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11521	47705	BCE106581	23583	59767	KPN302673	35644	71828	SHA101903
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WO 02/077183									PCT/US02/09107		
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11549	47733	BCE107071	23611	59795	KPN302810	35672	71856	SHA102018			
11550	47734	BCE107083	23612	59796	KPN302817	35673	71857	SHA102019			
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11558	47742	BCE107273	23620	59804	KPN302864	35681	71865	SHA102036			
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11563	47747	BCE107311	23625	59809	KPN302911	35686	71870	SHA102049			
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11575	47759	BCE107484	23637	59821	KPN303003	35698	71882	SHA102134			
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11581	47765	BCE107538	23643	59827	KPN303051	35704	71888	SHA102155			
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## WO 02/077183

## PCT/US02/09107

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11635	47819	BCE108518	23697	59881	KPN303362	35758	71942	SHA102497
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11645	47829	BCE108701	23707	59891	KPN303397	35768	71952	SHA102541
11646	47830	BCE108719	23708	59892	KPN303398	35769	71953	SHA102554
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11654	47838	BCE108874	23716	59900	KPN303432	35777	71961	SHA102684
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WO 02/077183						PCT/US02/09107		
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11658	47842	BCE108946	23720	59904	KPN303448	35781	71965	SHA102720
11659	47843	BCE108968	23721	59905	KPN303462	35782	71966	SHA102731
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11663	47847	BCE109015	23725	59909	KPN303475	35786	71970	SHA102778
11664	47848	BCE109039	23726	59910	KPN303478	35787	71971	SHA102781
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11670	47854	BCE109201	23732	59916	KPN303490	35793	71977	SHA102842
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## WO 02/077183

## PCT/US02/09107

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WO 02/077183									PCT/US02/09107		
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11818	48002	BCE111406	23880	60064	KPN304657	35941	72125	SMU100348			
11819	48003	BCE111412	23881	60065	KPN304658	35942	72126	SMU100349			
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WO 02/077183									PCT/US02/09107		
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11823	48007	BCE111462	23885	60069	KPN304707	35946	72130	SMU100374			
11824	48008	BCE111466	23886	60070	KPN304708	35947	72131	SMU100380			
11825	48009	BCE111505	23887	60071	KPN304710	35948	72132	SMU100382			
11826	48010	BCE111516	23888	60072	KPN304718	35949	72133	SMU100383			
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11840	48024	BCE111852	23902	60086	KPN304829	35963	72147	SMU100452			
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WO 02/077183									PCT/US02/09107		
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WO 02/077183									PCT/US02/09107		
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11934	48118	BCE113410	23996	60180	KPN305997	36057	72241	SMU100656			
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11936	48120	BCE113424	23998	60182	KPN306040	36059	72243	SMU100664			
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11938	48122	BCE113436	24000	60184	KPN306058	36061	72245	SMU100666			
11939	48123	BCE113442	24001	60185	KPN306067	36062	72246	SMU100668			
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11945	48129	BCE113546	24007	60191	KPN306162	36068	72252	SMU100686			
11946	48130	BCE113547	24008	60192	KPN306163	36069	72253	SMU100688			
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